

# ORP8 Rabbit pAb

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Catalog # AP58420

## Product Information

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| <b>Application</b>             | IHC-P, IHC-F, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">Q9BZF1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Predicted</b>               | Rat, Pig, Dog, Human, Mouse, Chicken, Horse, Sheep                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Calculated MW</b>           | 101196                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human ORP8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Epitope Specificity</b>     | 121-220/889                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>SUBCELLULAR LOCATION</b>    | Endoplasmic reticulum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Background Descriptions</b> | ORP8 is a member of the oxysterol-binding protein related protein family. In humans, the gene family consists of 12 members, and extensive splice variation increases the number of encoded protein products substantially. The ORPs have been implicated as sterol sensors that regulate a number of cellular functions including sterol and neutral lipid metabolism, intracellular lipid transport, membrane trafficking and cell signaling. ORP8 has been recently shown to act as a sterol sensor that affects the reverse cholesterol transport process via modulation of ABCA1 expression and macrophage cholesterol efflux. |

## Additional Information

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| <b>Gene ID</b>     | 114882                                                                                                                                                                                          |
| <b>Other Names</b> | Oxysterol-binding protein-related protein 8, ORP-8, OSBP-related protein 8, OSBPL8, KIAA1451 {ECO:0000303 PubMed:10819331}, ORP8, OSBP10                                                        |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000                                                                                                                                 |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| <b>Name</b>              | OSBPL8 ( <a href="#">HGNC:16396</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>          | Lipid transporter involved in lipid countertransport between the endoplasmic reticulum and the plasma membrane: specifically exchanges phosphatidylserine with phosphatidylinositol 4-phosphate (PI4P), delivering phosphatidylserine to the plasma membrane in exchange for PI4P, which is degraded by the SAC1/SACM1L phosphatase in the endoplasmic reticulum. Binds phosphatidylserine and PI4P in a mutually exclusive manner (PubMed: <a href="#">26206935</a> ). Binds oxysterol, 25- hydroxycholesterol and cholesterol (PubMed: <a href="#">17428193</a> , PubMed: <a href="#">17991739</a> , PubMed: <a href="#">21698267</a> ). |
| <b>Cellular Location</b> | [Isoform 1]: Endoplasmic reticulum membrane; Single-pass membrane protein. Nucleus membrane. Note=The presence of the N-terminus extension contains an overall negative charge that may explain the weak localization to the cortical endoplasmic reticulum (Probable)                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Widely expressed (PubMed:11735225). Expressed at higher level in macrophages (PubMed:17991739)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.