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# BAI2 Rabbit pAb

BAI2 Rabbit pAb
Catalog # AP58671

## Product Information

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| **Application** | IHC-P, IHC-F, IF, E |
| **Primary Accession** | O60241 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Pig, Horse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 172656 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human BAI2 |
| **Epitope Specificity** | 701-800/1585 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Cell Membrane |
| **SIMILARITY** | Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily. Contains 1 GPS domain. Contains 4 TSP type-1 domains. |
| **SUBUNIT** | Interacts with GABPB2 (By similarity). |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | BAI1, a p53-target gene, encodes brain-specific angiogenesis inhibitor, a seven-span transmembrane protein and is thought to be a member of the secretin receptor family. Brain-specific angiogenesis proteins BAI2 and BAI3 are similar to BAI1 in structure, have similar tissue specificities and may also play a role in angiogenesis. |

## Additional Information

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| **Gene ID** | 576 |
| **Other Names** | Adhesion G protein-coupled receptor B2, Brain-specific angiogenesis inhibitor 2, ADGRB2 (HGNC:944), BAI2 |
| **Target/Specificity** | Strongly expressed in brain. Also detected in heart, thymus, skeletal muscle, and different cell lines. |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | 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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| **Name** | ADGRB2 ( HGNC:944) |
| **Synonyms** | BAI2 |
| **Function** | Orphan G-protein coupled receptor involved in cell adhesion and probably in cell-cell interactions. Activates NFAT-signaling pathway, a transcription factor, via the G-protein GNAZ (PubMed:20367554, PubMed:28891236). Involved in angiogenesis inhibition (By similarity). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Secreted |
| **Tissue Location** | Detected in cerebrospinal fluid (at protein level) (PubMed:25326458). Strongly expressed in brain. Also detected in heart, thymus, skeletal muscle, and different cell lines |

## Background

BAI1, a p53-target gene, encodes brain-specific angiogenesis inhibitor, a seven-span transmembrane protein and is thought to be a member of the secretin receptor family. Brain-specific angiogenesis proteins BAI2 and BAI3 are similar to BAI1 in structure, have similar tissue specificities and may also play a role in angiogenesis.