

# Anti-EPHA8 (Phospho-Y838) Antibody

Catalog # AP60909

## Product Information

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|-------------------|----------------------------|
| Application       | WB                         |
| Primary Accession | <a href="#">P29322</a>     |
| Reactivity        | Human, Mouse, Rat, Chicken |
| Host              | Rabbit                     |
| Clonality         | Polyclonal                 |
| Calculated MW     | 111003                     |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 2046                                                                                                                                           |
| Other Names        | EEK; HEK3; KIAA1459; Ephrin type-A receptor 8; EPH- and ELK-related kinase; EPH-like kinase 3; EK3; hEK3; Tyrosine-protein kinase receptor EEK |
| Target/Specificity | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y838 of human EPHA8 protein. The exact sequence is proprietary.  |
| Dilution           | WB~~WB (1/500 - 1/1000)                                                                                                                        |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                      |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                      |

## Protein Information

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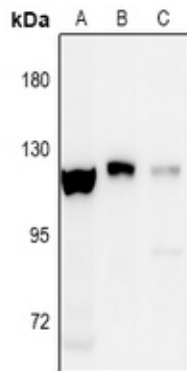
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | EPHA8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Synonyms | EEK, HEK3, KIAA1459                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Function | Receptor tyrosine kinase which binds promiscuously GPI- anchored ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. The GPI-anchored ephrin-A EFNA2, EFNA3, and EFNA5 are able to activate EPHA8 through phosphorylation. With EFNA5 may regulate integrin-mediated cell adhesion and migration on fibronectin substrate but also neurite outgrowth. During development of the nervous system also plays a role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN which promotes cell adhesion upon activation by EPHA8 and the MAP kinases in the stimulation of neurite outgrowth (By similarity). |

## Cellular Location

Cell membrane {ECO:0000250|UniProtKB:O09127}; Single-pass type I membrane protein. Cell projection {ECO:0000250|UniProtKB:O09127}. Early endosome membrane {ECO:0000250|UniProtKB:O09127}. Note=Undergoes clathrin-mediated endocytosis upon EFNA5-binding and is targeted to early endosomes {ECO:0000250|UniProtKB:O09127}

## Images

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Western blot analysis of EPHA8 (Phospho-Y838) expression in Hela (A), mouse spleen (B), rat kidney (C) whole cell lysates. (Predicted band size: 111 kD; Observed band size: 125 kD)

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