

## Rabbit anti-Human, mouse EphA4 Polyclonal Antibody | anti-EPHA4 antibody

EphA4 Antibody (C-term)

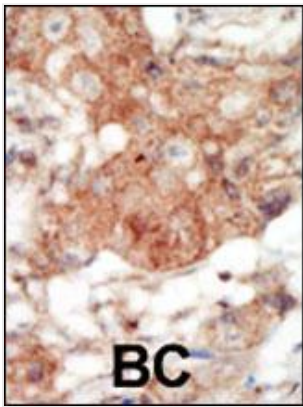
| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                              |
|-----------|--------|--------------|-------------------------------------------|
| AAA28736  | Rabbit | Human, mouse | Western Blot, ELISA, Immunohistochemistry |

### PRODUCT SYNONYMS

EphA4; Polyclonal Antibody; EphA4 Antibody (C-term); Ephrin type-A receptor 4; EPH-like kinase 8; EK8; hEK8; Tyrosine-protein kinase TYRO1; Tyrosine-protein kinase receptor SEK; EPHA4; HEK8; SEK; TYRO1; anti-EPHA4 antibody

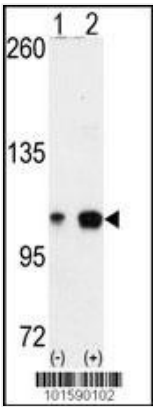
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                    |
| Reactivity                                      | Human, mouse                                                                                                                                                                              |
| Clonality                                       | Polyclonal                                                                                                                                                                                |
| Isotype                                         | Rabbit Ig                                                                                                                                                                                 |
| Specificity                                     | This EphA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 875-904 amino acids from the C-terminal region of human EphA4.                    |
| Purity/Purification                             | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Concentration                                   | Vial Concentration: 2 (varies by lot)                                                                                                                                                     |
| Sequence Positions                              | 875-904                                                                                                                                                                                   |
| Sequence Length                                 | 935                                                                                                                                                                                       |
| Applicable Applications for anti-EPHA4 antibody | WB (Western Blot), ELISA, IHC (Immunohistochemistry)                                                                                                                                      |
| Application Notes                               | WB~~1:1000                                                                                                                                                                                |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                                         |
| Antigen Source                                  | HUMAN                                                                                                                                                                                     |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |



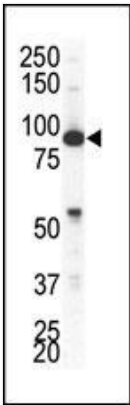
**IHC (Immunohistochemistry)**

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



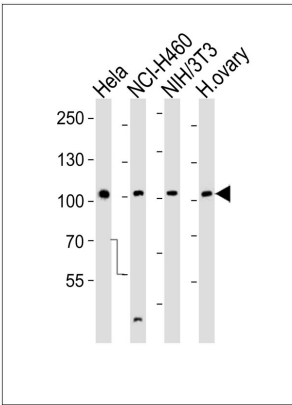
**WB (Western Blot)**

Western blot analysis of EPHA4 (arrow) using EphA4 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EPHA4 gene (Lane 2) (Origene Technologies).



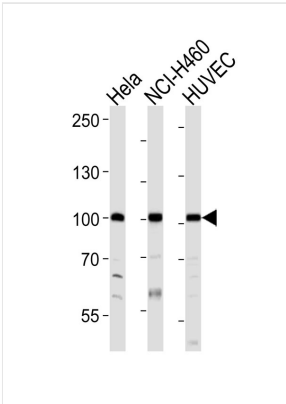
**WB (Western Blot)**

Western blot analysis of anti-EphA4 Pab in NCI-H460 cell lysate. EphA4 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



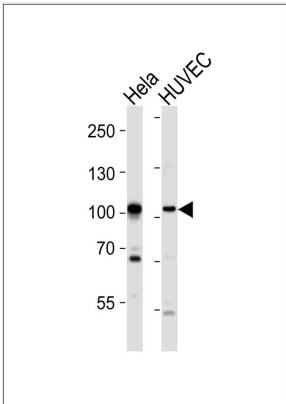
**WB (Western Blot)**

Western blot analysis of lysates from HeLa, NCI-H460, mouse NIH/3T3 cell line and human ovary tissue lysate (from left to right), using EPHA4 Antibody (R890). AAA28736 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 35ug per lane.



**WB (Western Blot)**

Western blot analysis of lysates from HeLa, NCI-H460, HUVEC cell line (from left to right), using EPHA4 Antibody (R890). AAA28736 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



**WB (Western Blot)**

Western blot analysis of lysates from HeLa, HUVEC cell line (from left to right), using EPHA4 Antibody (R890). AAA28736 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-EPHA4 antibody | Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families). |
| Product Categories/Family for anti-EPHA4 antibody   | Cardiovascular; Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| References                                          | Prevost, N., et al., Proc. Natl. Acad. Sci. U.S.A. 99(14):9219-9224 (2002). Xu, Q., et al., Philos. Trans. R. Soc. Lond., B, Biol. Sci. 355(1399):993-1002 (2000). Holder, N., et al., Development 126(10):2033-2044 (1999). Zhou, R., Pharmacol. Ther. 77(3):151-181 (1998). Fox, G.M., et al., Oncogene 10(5):897-905 (1995).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 4758280                                |
| NCBI GeneID                      | 2043                                   |
| NCBI Accession #                 | NP_004429.1                            |
| NCBI GenBank Nucleotide #        | NM_004438.4                            |
| UniProt Accession #              | P54764; Q2M380; A8K2P1; B2R601; B7Z6Q8 |
| Molecular Weight                 | 109860                                 |
| NCBI Official Full Name          | ephrin type-A receptor 4 isoform a     |
| NCBI Official Synonym Full Names | EPH receptor A4                        |
| NCBI Official Symbol             | EPHA4                                  |
| NCBI Official Synonym Symbols    | SEK; HEK8; TYRO1                       |
| NCBI Protein Information         | ephrin type-A receptor 4               |
| UniProt Protein Name             | Ephrin type-A receptor 4               |
| UniProt Gene Name                | EPHA4                                  |
| UniProt Synonym Gene Names       | HEK8; SEK; TYRO1; EK8; hEK8            |
| UniProt Entry Name               | EPHA4_HUMAN                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.