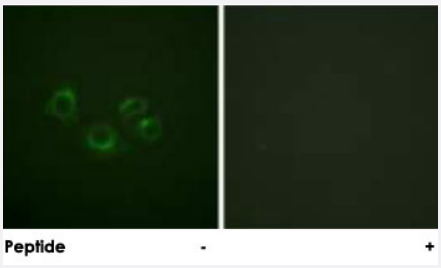
CellTx™

# EPHA2/EPHA3/EPHA4 polyclonal antibody

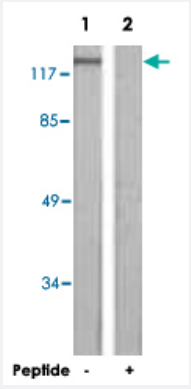
Catalog # PAB18348 Size 100 ug

## Applications




### Immunofluorescence

Immunofluorescence analysis of A-549 cells, using EPHA2/EPHA3/EPHA4 polyclonal antibody (Cat # PAB18348).
Peptide "+" means "peptide blocking".




### Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells, using EPHA2/EPHA3/EPHA4 polyclonal antibody (Cat # PAB18348).
Peptide "+" means "peptide blocking".

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of EPHA2/EPHA3/EPHA4. |
| **Immunogen** | A synthetic peptide corresponding to residues surrounding Y588/Y596 of human EPHA2/EPHA3/EPHA4. |
| **Host** | Rabbit |
| **Reactivity** | Human, Rat |
| **Specificity** | This antibody is specific to EPHA2/EPHA3/EPHA4. |

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| | |
|---|---|
| **Form** | Liquid |
| **Purification** | Affinity purification |
| **Concentration** | 1 mg/mL |
| **Recommend Usage** | Western Blot (1:500-1:1000)<br>Immunofluorescence (1:500-1:1000)<br>ELISA (1:40000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Immunofluorescence

  Immunofluorescence analysis of A-549 cells, using EPHA2/EPHA3/EPHA4 polyclonal antibody (Cat # PAB18348). Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of extracts from NIH/3T3 cells, using EPHA2/EPHA3/EPHA4 polyclonal antibody (Cat # PAB18348). Peptide "+" means "peptide blocking".

## Gene Info — EPHA2

| | |
|---|---|
| **Entrez GeneID** | 1969 |
| **Gene Name** | EPHA2 |
| **Gene Alias** | ECK |
| **Gene Description** | EPH receptor A2 |
| **Omim ID** | 176946 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. [provided by RefSeq |
| **Other Designations** | ephrin receptor EphA2\|epithelial cell receptor protein tyrosine kinase\|protein tyrosine kinase\|rece ptor protein tyrosine kinase regulated by p53 and E2F-1\|soluble EPHA2 variant 1 |

## Gene Info — EPHA3

| | |
|---|---|
| **Entrez GeneID** | 2042 |
| **Gene Name** | EPHA3 |
| **Gene Alias** | ETK, ETK1, HEK, HEK4, TYRO4 |
| **Gene Description** | EPH receptor A3 |
| **Omim ID** | 179611 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. Two alternatively spliced transcript variants have been described for this gene. [ provided by RefSeq |
| **Other Designations** | TYRO4 protein tyrosine kinase\|eph-like tyrosine kinase 1\|ephrin receptor EphA3\|human embryo ki nase 1 |

## Gene Info — EPHA4

| | |
|---|---|
| **Entrez GeneID** | 2043 |
| **Gene Name** | EPHA4 |
| **Gene Alias** | HEK8, SEK, TYRO1 |
| **Gene Description** | EPH receptor A4 |
| **Omim ID** | 602188 |

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| | |
|---|---|
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000164185\|TYRO1 protein tyrosine kinase\|ephrin receptor EphA4\|ephrin type-A rec eptor 4\|receptor protein-tyrosine kinase HEK8\|tyrosine-protein kinase receptor SEK |

## Publication Reference

- Human dendritic cells express neuronal Eph receptor tyrosine kinases: role of EphA2 in regulating adhesion to fibronectin.

  de Saint-Vis B, Bouchet C, Gautier G, Valladeau J, Caux C, Garrone P.

  Blood 2003 Dec; 102(13):4431.

  Application: ICC, IHC, Flow Cyt, Human, Human dendritic cells, Human skin

## Pathway

- Axon guidance
- Axon guidance
- Axon guidance

## Disease

- Alzheimer Disease
- Cataract
- Cognition Disorders
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease

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- Hearing Loss
- Pancreatic cancer
- Pancreatic Neoplasms
- Parkinson disease

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