

# EphA3 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7608b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">P29320</a>
<b>Reactivity</b>	Human, Hamster
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB1585
<b>Antigen Region</b>	896-928

## Additional Information

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<b>Other Names</b>	Ephrin type-A receptor 3, EPH-like kinase 4, EK4, hEK4, HEK, Human embryo kinase, Tyrosine-protein kinase TYRO4, Tyrosine-protein kinase receptor ETK1, Eph-like tyrosine kinase 1, EPHA3, ETK, ETK1, HEK, TYRO4
<b>Target/Specificity</b>	This EphA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 896-928 amino acids from the C-terminal region of human EphA3.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	EphA3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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### Background

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Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  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).

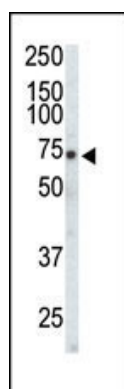
## References

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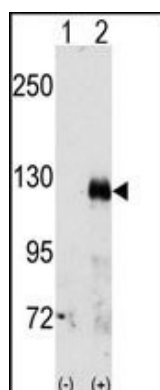
Chiari, R., et al., *Cancer Res.* 60(17):4855-4863 (2000).  
Wicks, I.P., et al., *Proc. Natl. Acad. Sci. U.S.A.* 89(5):1611-1615 (1992).  
Boyd, A.W., et al., *J. Biol. Chem.* 267(5):3262-3267 (1992).

## Images

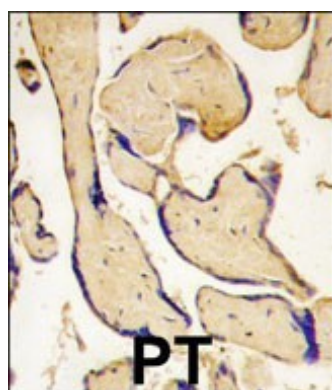
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Western blot analysis of anti-EphA3 Pab (Cat. #AP7608b) in CHO cell lysate. EphA3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western blot analysis of EphA3 (arrow) using rabbit polyclonal EphA3 Antibody (C-term) (Cat. #AP7608b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the EphA3 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human placenta tissue reacted with EphA3 antibody (C-term), 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.

## Citations

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- [EphA3 Downregulation by Hypermethylation Associated with Lymph Node Metastasis and TNM Stage in Colorectal Cancer.](#)

- [Loss of EphA3 Protein Expression Is Associated With Advanced TNM Stage in Clear-Cell Renal Cell Carcinoma.](#)

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