

Datasheet: AHP1120

Description:	RABBIT ANTI HUMAN EPHA4
Specificity:	EPHA4
Other names:	EPHRIN TYPE-A RECEPTOR 4
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			5 - 10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to EphA4 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide corresponding to an internal domain of human EphA4.

**External Database
Links**

UniProt:

[P54764](#) [Related reagents](#)

Entrez Gene:

[2043](#) EPHA4 [Related reagents](#)

Synonyms

HEK8, SEK, TYRO1

Specificity

Rabbit anti Human EphA4 antibody detects an epitope within the internal domain of human Ephrin Type A Receptor 4 (EphA4), a ~75 kDa single-pass type I membrane protein and member of the ephrin receptor subfamily of the protein-tyrosine kinase family.

EphA4 is ubiquitously expressed and is thought to play a role in a number of different developmental pathways, including the corticospinal tract formation, hindbrain pattern formation and regulating the structure of synaptic connections. EphA4 may also act as a locomotor central pattern generator.

**Histology Positive
Control Tissue**

Glomerulus

References

1. Kullander, K. *et al.* (2001) Kinase-dependent and kinase-independent functions of EphA4 receptors in major axon tract formation *in vivo*. [Neuron. 29 \(1\): 73-84.](#)
2. Murai, K.K. *et al.* (2003) Control of hippocampal dendritic spine morphology through ephrin-A3/EphA4 signaling. [Nat Neurosci. 6 \(2\): 153-60.](#)
3. Theil, T. *et al.* (1998) Segmental expression of the EphA4 (Sek-1) receptor tyrosine kinase in the hindbrain is under direct transcriptional control of Krox-20. [Development. 125 \(3\): 443-52.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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'M313619:180328'

Printed on 09 Apr 2018

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