

Datasheet for ABIN1048573

## anti-EPH Receptor B2 antibody (Internal Region)



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### 1 Image

#### Overview

Quantity:	50 µg
Target:	EPH Receptor B2 (EPHB2)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EPH Receptor B2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 15 amino acid peptide from internal region of human EPHB2. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset, Mouse, Rat, Panda, Rabbit, Opossum, Zebrafish (100%), Hamster, Elephant, Bovine, Pig, Turkey, Chicken, Pufferfish (93%), Xenopus, Seabass (87%), Stickleback (80%).  Type of Immunogen: Synthetic peptide
Specificity:	Human EPHB2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Marmoset, Mouse, Rat, Panda, Rabbit, Opossum, Zebrafish (100%) Hamster, Elephant, Bovine, Pig, Turkey,

## Product Details

Chicken, Pufferfish (93%) Xenopus, Seabass (87%) Stickleback (80%).

Purification: Immunoaffinity purified

## Target Details

Target: EPH Receptor B2 (EPHB2)

Alternative Name: EPHB2 / EPH Receptor B2 ([EPHB2 Products](#))

Background: Name/Gene ID: EPHB2  
Subfamily: Ephrin Receptor  
Family: Protein Kinase

Synonyms: EPHB2, CAPB, Cek5, EK5, ETECK, EPH tyrosine kinase 3, DRT, ELK-related tyrosine kinase, Hek5, EPH-like kinase 5, EPHT3, Nuk, PCBC, Tyrosine-protein kinase TYRO5, Protein-tyrosine kinase HEK5, Tyro5, EPH receptor B2, Ephrin type-B receptor 2, EPTH3

Gene ID: 2048

Pathways: [RTK Signaling](#), [Regulation of long-term Neuronal Synaptic Plasticity](#), [S100 Proteins](#)

## Application Details

Application Notes: Approved: IHC, IHC-P (7 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

### Tissue Preparation

Formalin fixation and embedding in paraffin wax

### Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

**Antigen retrieval**

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

**Immunostaining**

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

**Dehydrate**

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

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Restrictions: For Research Use only

Handling

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Format: Liquid

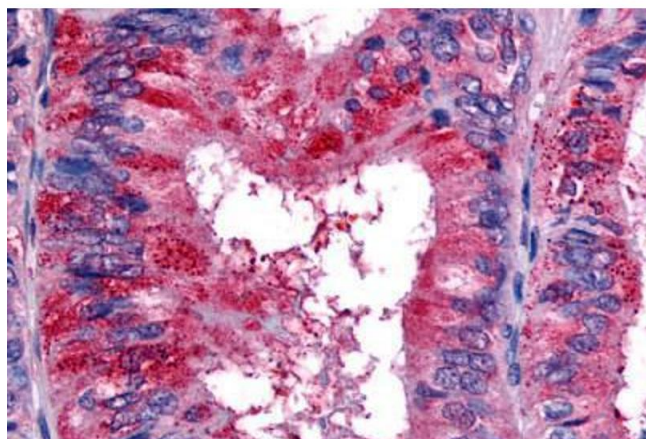
Concentration: Lot specific

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## Handling

Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-EPHB2 antibody ABIN1048573 IHC staining of human colon, carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.