BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-EPHA4 Antibody (Center)

Catalog Number: A01860-1

About EPHA4

Receptor tyrosine kinase which binds membrane-bound ephrin family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Highly promiscuous, it has the unique property among Eph receptors to bind and to be physiologically activated by both GPI-anchored ephrin-A and transmembrane ephrin-B ligands including EFNA1 and EFNB3. Upon activation by ephrin ligands, modulates cell morphology and integrin-dependent cell adhesion through regulation of the Rac, Rap and Rho GTPases activity. Plays an important role in the development of the nervous system controlling different steps of axonal guidance including the establishment of the corticospinal projections. May also control the segregation of motor and sensory axons during neuromuscular circuit development. Beside its role in axonal guidance plays a role in synaptic plasticity. Activated by EFNA1 phosphorylates CDK5 at 'Tyr-15' which in turn phosphorylates NGEF regulating RHOA and dendritic spine morphogenesis. In the nervous system, plays also a role in repair after injury preventing axonal regeneration and in angiogenesis playing a role in central nervous system vascular formation. Additionally, its promiscuity makes it available to participate in a variety of cell-cell signaling regulating for instance the development of the thymic epithelium.

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Overview

Product Name	Anti-EPHA4 Antibody (Center)
Reactive Species	Human, Mouse
Description	Boster Bio Anti-EPHA4 Antibody (Center) (Catalog # A01860-1). Tested in IHC-P, WB application(s). This antibody reacts with Human, Mouse.
Application	IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P54764

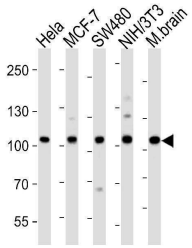
Technical Details

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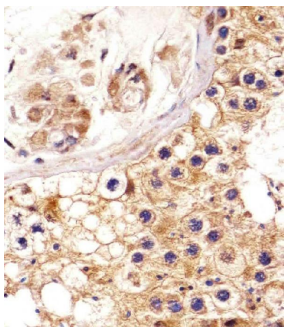
Immunogen	This EPHA4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 383-417 amino acids from the Central region of human EPHA4.
Predicted Reactive Species	Chicken, Drosophila, Rat, Xenopus
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	WB: 1:1000 IHC-P: 1:25

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Anti-EPHA4 Antibody (Center) (A01860-1) Images



Western blot analysis of lysates from Hela, MCF-7, SW480, mouse NIH/3T3 cell line, mouse brain tissue lysate (from left to right), using EPHA4 Antibody (Center). A01860-1 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.



Immunohistochemical analysis of paraffin-embedded H. testis section using EPHA4 Antibody (Center). A01860-1 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Anti-EPHA4 Antibody (Center)

For Research Use Only. Not for use in diagnostic procedures.