


Product datasheet

Anti-Ephexin-1 (phospho Y87) antibody ab157594

1 References 2 Images

Overview

Product name	Anti-Ephexin-1 (phospho Y87) antibody
Description	Rabbit polyclonal to Ephexin-1 (phospho Y87)
Host species	Rabbit
Specificity	The specific band detected in WB is removed by alkaline phosphatase treatment.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken 
Immunogen	Synthetic phosphopeptide coupled to a carrier protein, corresponding to residues surrounding tyrosine 87 of Mouse Ephexin-1 (UniProt ID: Q8CHT1).
Positive control	A431 cell lysate; Mouse C2C12 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 50% Glycerol, 49% PBS, 0.1% BSA
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab157594** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

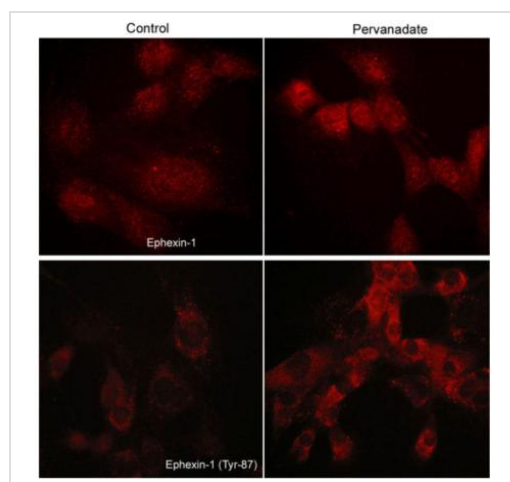
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 82 kDa.

Application	Abreviews	Notes
ICC/IF		1/200.

Target

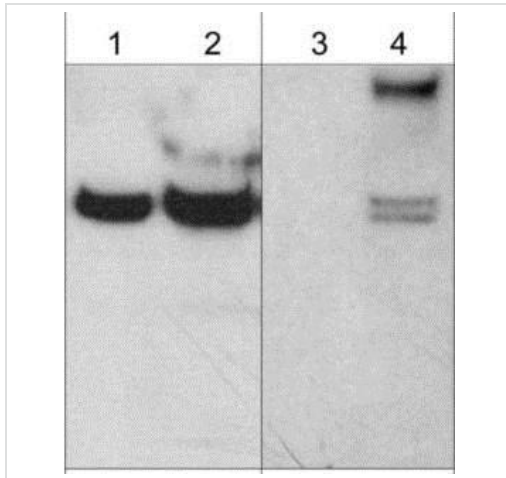
Function	Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1-and CDC42-stimulated growth cone extension.
Tissue specificity	Highly expressed in brain specifically in caudate nucleus and to a lower extent in amygdala and hippocampus. Also detected in lung.
Sequence similarities	Contains 1 DH (DBL-homology) domain. Contains 1 PH domain. Contains 1 SH3 domain.
Domain	The DH domain and the PH domain are both required to mediate interaction with EPHA4.
Post-translational modifications	Src-dependent phosphorylation at Tyr-179 upon EPHA4 activation increases the guanine exchange factor activity toward RHOA.
Cellular localization	Cytoplasm. Membrane. Cell projection > growth cone. Associated with membranes. Localizes to axonal growth cones.

Images



Immunofluorescent analysis of mouse C2C12 cells labeling Ephexin-1 with [ab157593](#) (C-terminal region) (upper images) or [ab157594](#) (Tyr-87) (lower images) at 1/50 dilution, detected using appropriate secondary antibodies conjugated to Cy3. Cells in the right images were treated with pervanadate.

Immunocytochemistry/ Immunofluorescence - Anti-Ephexin-1 (phospho Y87) antibody ([ab157594](#))



Western blot - Anti-Ephexin-1 (phospho Y87) antibody (ab157594)

Lanes 1-2 : Anti-Ephexin-1 antibody - C-terminal (ab157593) at 1/1000 dilution

Lanes 3-4 : Anti-Ephexin-1 (phospho Y87) antibody (ab157594) at 1/1000 dilution

Lanes 1 & 3 : Lysate from A431 cells

Lanes 2 & 4 : Lysate from A431 cells treated with pervanadate (1 mM) for 30 min.

Predicted band size: 82 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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