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Datasheet for ABIN1705914  
**anti-NGEF antibody (pTyr179) (Cy5.5)**

### Overview

Quantity:	100 µL
Target:	NGEF
Binding Specificity:	pTyr179
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NGEF antibody is conjugated to Cy5.5
Application:	Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Western Blotting (WB)

### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Ephexin-1 around the phosphorylation site of Tyr179
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Chicken
Purification:	Purified by Protein A.

### Target Details

Target:	NGEF
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## Target Details

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Alternative Name: Ephexin-1 ([NGEF Products](#))

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Background: Synonyms: Ephexin-1 phospho Y179, p-Ephexin-1 phospho Y179, ARHGEF27, Eph-interacting exchange protein, EPHEXIN, Ephexin 1, Neuronal guanine nucleotide exchange factor, Ngef, NGEF\_HUMAN.

Background: EPHEXIN is a 710 amino acid protein that localizes to both the membrane and the cytoplasm and contains one SH3 domain, one PH domain and one DH domain. Expressed at high levels in brain and present at lower levels in lung tissue, EPHEXIN interacts with EphA4 and functions as a guanine nucleotide exchange factor (GEF) that is capable of activating Rho A, Rac 1 and Cdc42 and is thought to play a role in axon guidance and growth cone collapse. EPHEXIN is subject to Src-dependent phosphorylation, an event that increases the GEF activity of EPHEXIN toward Rho A. Human EPHEXIN, which exists as multiple alternatively spliced isoforms, shares a high degree of sequence homology with its mouse counterpart, suggesting a conserved role between species.

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Gene ID: 25791

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Pathways: [Neurotrophin Signaling Pathway](#)

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## Application Details

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Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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Storage: -20 °C

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## Handling

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months