

NGEF Rabbit pAb

CatalogNo: YN7705

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 78kD (Calculated)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human NGEF

Specificity This antibody detects endogenous levels of NGEF at Human, Mouse, Rat

Target Information

Gene name NGEF

Protein Name Ephexin-1 (Eph-interacting exchange protein) (Neuronal guanine nucleotide exchange factor)

Organism	Gene ID	UniProt ID
Human	25791 ;	Q8N5V2 ;
Mouse	53972 ;	Q8CHT1 ;
Rat		Q5BKC9 ;

Cellular Localization Cytoplasm . Membrane . Cell projection, growth cone . Associated with membranes. Localizes to axonal growth cones (By similarity). .

Tissue specificity Highly expressed in brain specifically in caudate nucleus and to a lower extent in amygdala and hippocampus. Also detected in lung.

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 and dendritic spine morphogenesis. 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 (By similarity).

Validation Data

Contact information

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NGEF Rabbit pAb

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