

## ARG45066 anti-NGEF antibody

Package: 50 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes NGEF
Tested Reactivity	Hu, Ms, Rat, Chk
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NGEF
Species	Mouse
Immunogen	Ephexin-1 synthetic peptide corresponds to amino acids in the C-terminal region of mouse ephexin-1. This sequence has significant homology to the same region in human and rat ephexin-1, and has low homology to other known proteins.
Conjugation	Un-conjugated
Alternate Names	NGEF; Neuronal Guanine Nucleotide Exchange Factor; ARHGEF27; Eph-Interacting Exchange Protein; Ephexin-1; Ephexin1; Ephexin

### Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Antigen Affinity Purified.
Buffer	PBS, 0.05% NaN <sub>3</sub> , 50% Glycerol and 0.1 % BSA.
Stabilizer	50% Glycerol and 0.1 % BSA
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Gene Symbol	NGEF
Gene Full Name	Neuronal Guanine Nucleotide Exchange Factor
Background	Enables guanyl-nucleotide exchange factor activity. Predicted to be involved in several processes, including activation of GTPase activity; ephrin receptor signaling pathway; and negative regulation of dendritic spine morphogenesis. Predicted to be located in cytosol. Predicted to be active in glutamatergic synapse. [provided by Alliance of Genome Resources, Apr 2022]
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
Calculated Mw	82 kDa
PTM	Phosphoprotein
Cellular Localization	Cell projection, Cytoplasm, Membrane