ARG55414
anti-CLIP1 / CLIP170 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CLIP1 / CLIP170
Tested Reactivity	Hu, Rat
Predict Reactivity	Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CLIP1 / CLIP170
Species	Human
Immunogen	Synthetic peptide (17 aa) within aa. 1340-1390 of Human CLIP170.
Conjugation	Un-conjugated
Alternate Names	CLIP170; RSN; CLIP; CLIP-170; Restin; Cytoplasmic linker protein 1; CAP-Gly domain-containing linker protein 1; CYLN1; Cytoplasmic linker protein 170 alpha-2; Reed-Sternberg intermediate filament-associated protein

Application Instructions

Application table

Application	Dilution
ICC/IF	20 µg/ml
WB	0.5 - 1 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Rat Brain Tissue Lysate

Properties

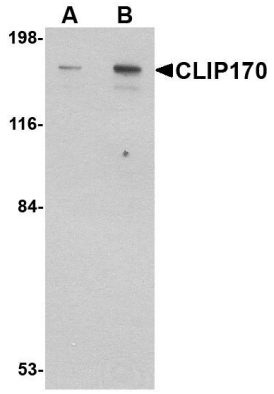
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. 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.

Bioinformation

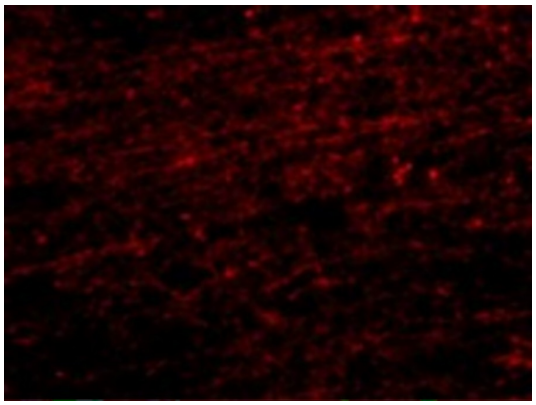
Database links	GeneID: 6249 Human Swiss-port # P30622 Human
Gene Symbol	CLIP1
Gene Full Name	CAP-GLY domain containing linker protein 1
Background	The protein encoded by this gene links endocytic vesicles to microtubules. This gene is highly expressed in Reed-Sternberg cells of Hodgkin disease. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]
Function	Binds to the plus end of microtubules and regulates the dynamics of the microtubule cytoskeleton. Promotes microtubule growth and microtubule bundling. Links cytoplasmic vesicles to microtubules and thereby plays an important role in intracellular vesicle trafficking. Plays a role macropinocytosis and endosome trafficking. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Signaling Transduction antibody
Calculated Mw	162 kDa
PTM	Phosphorylated. Phosphorylation induces conformational changes by increasing the affinity of the N-terminus for C-terminus, resulting in inhibition of its function thus decreasing its binding to microtubules and DCTN1. Exhibits a folded, autoinhibited conformation when phosphorylated and an open conformation when dephosphorylated with increased binding affinity to microtubules and DCTN1. Phosphorylation regulates its recruitment to tyrosinated microtubules and the recruitment of vesicular cargo to microtubules in neurons (By similarity). Phosphorylation by MTOR may positively regulate CLIP1 association with microtubules (PubMed:12231510).

Images



ARG55414 anti-CLIP1 / CLIP170 antibody WB image

Western blot: Rat brain tissue lysate stained with ARG55414 anti-CLIP1 / CLIP170 antibody at (A) 0.5 and (B) 1 µg/ml dilution.



ARG55414 anti-CLIP1 / CLIP170 antibody ICC/IF image

Immunofluorescence: Human brain tissue stained with ARG55414 anti-CLIP1 / CLIP170 antibody at 20 µg/ml dilution.