

Rabbit KALRN Polyclonal Antibody | anti-KALRN antibody

KALRN Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322745	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

KALRN; Polyclonal Antibody; KALRN Antibody; Duo; FLJ16443; HAPIP; Huntingtin associated protein interacting protein (duo); Huntingtin-associated protein-interacting protein; Kalirin (isoform 2); Kalirin; KALRN_HUMAN; Protein Duo; RhoGEF kinase; Serine/threonine kinase with Dbp and pleckstrin homology domains; Serine/threonine-protein kinase with Dbp-and pleckstrin homology domain; TRAD; anti-KALRN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KALRN antibody detects endogenous levels of total KALRN
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2986
Applicable Applications for anti-KALRN antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human KALRN
Subcellular Location	Cytoskeleton
Tissue Specificity	Isoform 2 is brain specific. Highly expressed in cerebral cortex, putamen, amygdala, hippocampus and caudate nucleus. Weakly expressed in brain stem and cerebellum. Isoform 4 is expressed in skeletal muscle.
Predicted Cross Reactivity	Horse, Rabbit
Similarity	Horse (91%), Rabbit (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322745 staining A549 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA322745 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of KALRN using HUVEC whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-KALRN antibody

Function: Promotes the exchange of GDP by GTP. Activates specific Rho GTPase family members, thereby inducing various signaling mechanisms that regulate neuronal shape, growth, and plasticity, through their effects on the actin cytoskeleton. Induces lamellipodia independent of its GEF activity.

Subunit Structure: Interacts with the C-terminal of peptidylglycine alpha-amidating monooxygenase (PAM) and with the huntingtin-associated protein 1 (HAP1) (By similarity). Interacts with FASLG.

Post-translational Modifications: Autophosphorylated.

Similarity: The two GEF domains catalyze nucleotide exchange for RAC1 and RhoA which are bound by DH1 and DH2 respectively. The two GEF domains appear to play differing roles in neuronal development and axonal outgrowth. SH3 1 binds to the first GEF domain inhibiting GEF activity only when in the presence of a PXXP peptide, suggesting that the SH3 domain/peptide interaction mediates binding to GEF1. CRK1 SH3 domain binds to and inhibits GEF1 activity (By similarity). Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148839466
NCBI GeneID	8997
NCBI Accession #	NP_001019831.2
NCBI GenBank Nucleotide #	NM_001024660.4
UniProt Accession #	O60229; Q6ZN45; Q8TBQ5; Q9NSZ4; Q9Y2A5; A8MSI4; C9JQ37
Molecular Weight	Observed: 340 kDa Predicted: 341 kDa
NCBI Official Full Name	kalirin isoform 1
NCBI Official Synonym Full Names	kalirin RhoGEF kinase
NCBI Official Symbol	KALRN
NCBI Official Synonym Symbols	DUO; CHD5; DUET; TRAD; CHDS5; HAPIP; ARHGEF24
NCBI Protein Information	kalirin
UniProt Protein Name	Kalirin
UniProt Gene Name	KALRN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kalrn-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322745>