Rabbit Merlin Polyclonal Antibody | anti-NF2 antibody

Phospho-Merlin (Ser518) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321598	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

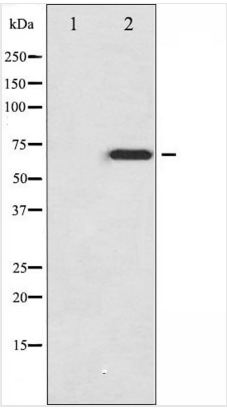
Merlin; Polyclonal Antibody; Phospho-Merlin (Ser518) Antibody; ACN; BANF; Bilateral acoustic neuroma; MERL_HUMAN; Moesin ezrin radixin like protein; Moesin ezrin radizin like; Moesin-ezrin-radixin-like protein; Neurofibromatosis 2; Neurofibromatosis type 2; Neurofibromatosis2; Neurofibromin 2; Neurofibromin-2; Neurofibromin2; NF 2; Nf2; SCH; Schwannomerlin; Schwannomin; anti-NF2 antibody

PRODUCT SPECIFICATIONS

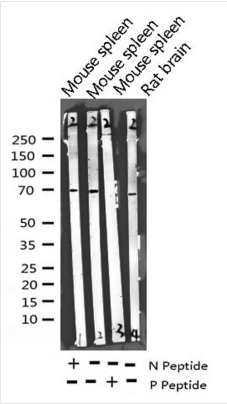
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Merlin (Ser518) antibody detects endogenous levels of Merlin only when phosphorylated at Serine 518
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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	595
Applicable Applications for anti-NF2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Merlin around the phosphorylation site of Serine 518
Subcellular Location	Cytoplasm > Perinuclear Region. Cytoplasmic Granule. Observed in cytoplasmic granules concentrated in a perinuclear location. Isoform 7 is absent from ruffling membranes and filopodia; Cytoplasm > Perinuclear Region. Cytoplasmic Granule. Observed in cytoplasmic granules concentrated in a perinuclear location. Isoform 9 is absent from ruffling membranes and filopodia; Nucleus. Cell Projection > Filopodium Membrane. Cell Projection > Ruffle Membrane. Cytoplasm > Perinuclear Region. Cytoplasmic Granule. Cytoplasm > Cytoskeleton. In a fibroblastic cell line, isoform 10 is found homogeneously distributed over the entire cell, with a particularly strong staining in ruffling membranes and filopodia and Cell Projection > Filopodium Membrane. Cell Projection > Ruffle Membrane. Nucleus. In a fibroblastic cell line, isoform 1 is found homogeneously distributed over the entire cell, with a particularly strong staining in ruffling membranes and filopodia. Colocalizes with MPP1 in non-myelin-forming Schwann cells. Binds with VPRBP in the nucleus. The intramolecular association of the FERM domain with the C-terminal tail promotes nuclear accumulation. The unphosphorylated form accumulates predominantly in the nucleus while the phosphorylated form is largely confined to the non-nuclear fractions.
Tissue Specificity	Widely expressed. Isoform 1 and isoform 3 are predominant. Isoform 4, isoform 5 and isoform 6 are expressed moderately. Isoform 8 is found at low frequency. Isoform 7, isoform 9 and isoform 10 are not expressed in adult tissues, with the exception of adult retina expressing isoform 10. Isoform 9 is faintly expressed in fetal brain, heart, lung, skeletal muscle and spleen. Fetal thymus expresses isoforms 1, 7, 9 and 10 at similar levels.
Predicted Cross Reactivity	**Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)

Conjugation	Unconjugated
Epitope	Phospho Ser518
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

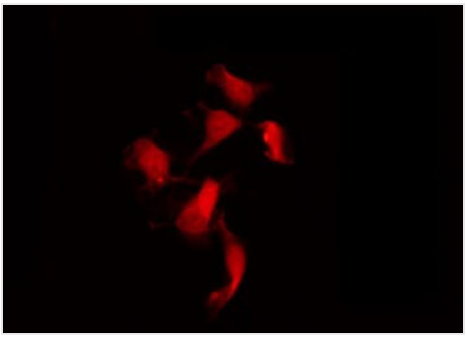
IMAGES



WB (Western Blot)
Western blot analysis of Merlin phosphorylation expression in IFN-alpha treated HuvEc whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-Merlin (Ser518) expression in various lysates



IF (Immunofluorescence)
AAA321598 staining NIH-3T3 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) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-NF2 antibody	Description: This gene encodes a protein that is similar to some members of the ERM (ezrin, radixin, moesin) family of proteins that are thought to link cytoskeletal components with proteins in the cell membrane. This gene product has been shown to interact with cell-surface proteins, proteins involved in cytoskeletal dynamics and proteins involved in regulating ion transport. Function: Probable regulator of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway, a signaling pathway that plays a pivotal role in tumor suppression by restricting proliferation and promoting apoptosis. Along with WWC1 can synergistically induce the phosphorylation of LATS1 and LATS2 and can probably function in the regulation of the Hippo/SWH (Sav/Wts/Hpo) signaling pathway. May act as a membrane stabilizing protein. May inhibit PI3 kinase by binding to AGAP2 and impairing its stimulating activity. Suppresses cell proliferation and tumorigenesis by inhibiting the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex. Subunit Structure: Interacts with SLC9A3R1, HGS and AGAP2. Interacts with LAYN (By similarity). Interacts with SGSM3. Interacts (via FERM domain) with MPP1. Interacts with WWC1. Interacts with the CUL4A-RBX1-DDB1-VprBP/DCAF1 E3 ubiquitin-protein ligase complex. The unphosphorylated form interacts (via FERM domain) with VPRBP/DCAF1. Interacts (via FERM domain) with NOP53; the interaction is direct (PubMed:21167305). Interacts with SCHIP1; the interaction is direct (PubMed:10669747). Post-translational Modifications: Phosphorylation of Ser-518 inhibits nuclear localization by disrupting the intramolecular association of the FERM domain with the C-terminal tail (PubMed:20178741). The dephosphorylation of Ser-518 favors the interaction with NOP53 (PubMed:21167305). Ubiquitinated by the CUL4A-RBX1-DDB1-DCAF1/VprBP E3 ubiquitin-protein ligase complex for ubiquitination and subsequent proteasome-dependent degradation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557795
NCBI GeneID	4771
NCBI Accession #	NP_000259.1
NCBI GenBank Nucleotide #	NM_000268.3
UniProt Accession #	P35240; O95683; Q8WUJ2; Q969N0; Q969Q3; Q96T30; Q96T31; Q96T32; Q96T33; Q9BTW3; Q9UNG9; Q9UNH3
Molecular Weight	Observed: 70 kDa Predicted: 70 kDa
NCBI Official Full Name	merlin isoform 1
NCBI Official Synonym Full Names	neurofibromin 2
NCBI Official Symbol	NF2
NCBI Official Synonym Symbols	ACN; SCH; BANF
NCBI Protein Information	merlin
UniProt Protein Name	Merlin
UniProt Gene Name	**NF2**
UniProt Synonym Gene Names	SCH

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/merlin-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321598