

KD-Validated Anti-NF2 / Merlin Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1144

Product Information

Application	WB, FC, ICC
Primary Accession	P35240
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2620
Calculated MW	69690
Gene Name	NF2
Aliases	NF2; NF2, Moesin-Ezrin-Radixin Like (MERLIN) Tumor Suppressor; SCH; Schwannomin; Merlin; BANE; ACN; Neurofibromin 2 (Bilateral Acoustic Neuroma); Bilateral Acoustic Neurofibromatosis; Moesin-Ezrin-Radixin-Like Protein; Moesin-Ezrin-Radixin Like; Neurofibromin-2 ; Schwannomerlin; Merlin-1; Moesin-Ezrin-Radixin-Like Protein; Neurofibromin 2 (Merlin); MERLIN-1; MERLIN; SWNV
Immunogen	A synthesized peptide derived from human NF2 / Merlin

Additional Information

Gene ID	4771
Other Names	Merlin, Moesin-ezrin-radixin-like protein, Neurofibromin-2, Schwannomerlin, Schwannomin, NF2, SCH

Protein Information

Name	NF2
Synonyms	SCH
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.
Cellular Location	[Isoform 1]: Cell projection, filopodium membrane; Peripheral membrane

protein; Cytoplasmic side. Cell projection, ruffle membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus. Note=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 DCAF1 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 [Isoform 9]: Cytoplasm, perinuclear region. Cytoplasmic granule. Note=Observed in cytoplasmic granules concentrated in a perinuclear location. Isoform 9 is absent from ruffling membranes and filopodia

Tissue Location

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

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