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NF2 / Merlin Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS12223

Specification

NF2 / Merlin Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P35240
Reactivity	**Human, Zebrafish**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**70kDa KDa**

NF2 / Merlin Antibody (Internal) - Additional Information

Gene ID 4771

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

Target/Specificity
Zebrafish NF2.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
NF2 / Merlin Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

NF2 / Merlin Antibody (Internal) - 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

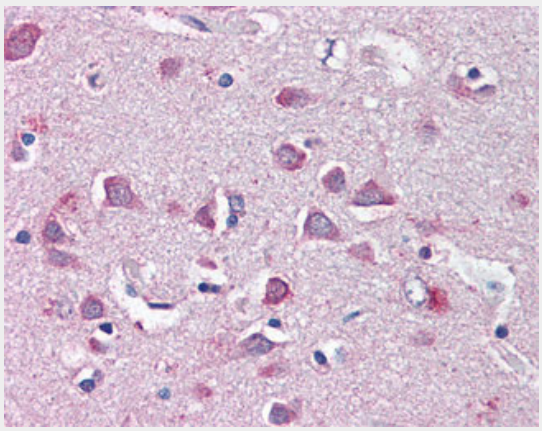
Tissue Location
Widely expressed. Isoform 1 and isoform 3 are predominant. Isoform 4, isoform 5 and isoform 6 are expressed moderately. Isoform 8 is found at low frequency. Isoform 7, isoform 9 and isoform 10 are not expressed in adult tissues, with the exception of adult retina expressing isoform 10. 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

NF2 / Merlin Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NF2 / Merlin Antibody (Internal) - Images



Anti-NF2 antibody IHC of human brain, cortex.

NF2 / Merlin Antibody (Internal) - Background

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NF2 / Merlin Antibody (Internal) - References

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