

Datasheet for ABIN104130

## anti-Merlin antibody (pSer518)

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### Overview

Quantity:	100 µg
Target:	Merlin (NF2)
Binding Specificity:	pSer518
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

### Product Details

Purpose:	NF2 phospho S518 Antibody
Immunogen:	Immunogen: Human NF2 (Merlin) phospho-peptide corresponding to a region of the human protein surrounding S518 and conjugated to Keyhole Limpet Hemocyanin (KLH). Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human NF2 (Neurofibromatosis 2 gene product).
Characteristics:	Synonyms: rabbit anti-NF2 pS518 antibody, rabbit anti-Merlin pS518 antibody, moesin ezrin radixin like protein antibody, Neurofibromatosis 2 antibody, Neurofibromin-2, Schwannomerlin, Schwannomin, Merlin, NF 2, NF-2, SCH
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity chromatography.

## Product Details

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Sterility: Sterile filtered

## Target Details

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Target: Merlin (NF2)

Alternative Name: NF2 ([NF2 Products](#))

Background: Background: The recently isolated neurofibromatosis 2 tumor suppressor gene encodes a 595 amino acid protein (Merlin). The protein product Merlin, named for its relatedness to the ezrin, radixin and moesin (ERM) family of proteins, is a tumor suppressor whose absence results in the occurrence of multiple tumors of the nervous system, particularly schwannomas and meningiomas. Merlin's similarity to ERM's suggests that it might share functions, acting as a link between cytoskeletal components and the cell membrane. The NF2 protein is highly expressed in human fibroblasts and is detected as a single band of about 75 kDa. This antibody is specific for the phosphorylated form of human NF2 (Merlin).

Gene ID: 4771

NCBI Accession: [NP\\_000259](#)

UniProt: [P35240](#)

Pathways: [Cell-Cell Junction Organization](#)

## Application Details

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Application Notes: Immunohistochemistry Dilution: User Optimized

Application Note: This phospho-specific polyclonal antibody was tested by immunoblotting and ELISA. By ELISA, the antibody was found to be reactive with the phosphorylated form of the immunizing peptide and minimally reactive with the non-phosphorylated form of the immunizing peptide. Immunoblotting will detect human and mouse NF2 (Merlin). Although not tested, this antibody is likely functional in Immunofluorescence, immunohistochemistry, and immunoprecipitation.

Western Blot Dilution: 1:500- 1:2,000

ELISA Dilution: 1:1,200,000

Other: User Optimized

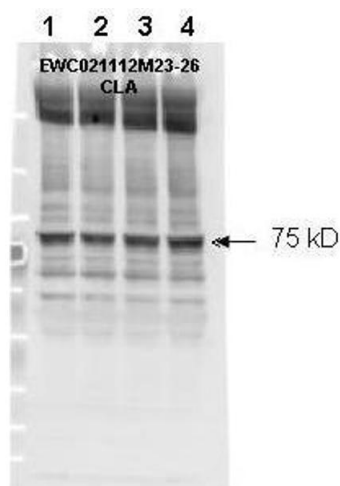
Restrictions: For Research Use only

## Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

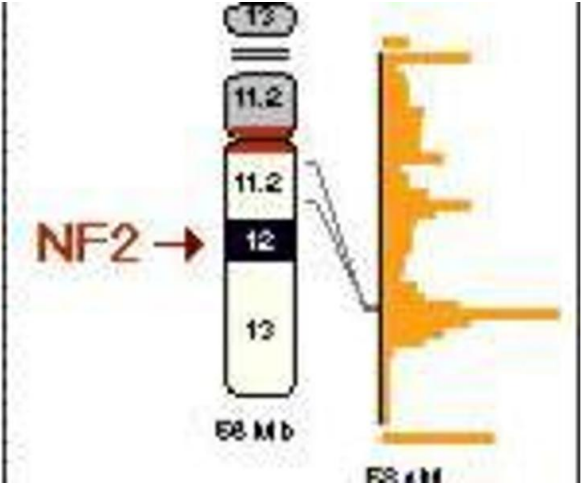
## Publications

Product cited in:	<p>Hu, Du, Shelton, Oldham, DiPersio, Klein: "An FAK-YAP-mTOR Signaling Axis Regulates Stem Cell-Based Tissue Renewal in Mice." in: <b>Cell stem cell</b>, Vol. 21, Issue 1, pp. 91-106.e6, (2018) (<a href="#">PubMed</a>).</p> <p>Angelo, Wu, Meng, Sun, Kopetz, McCutcheon, Slopis, Kurzrock: "Combining Curcumin (Diferuloylmethane) and Heat Shock Protein Inhibition for Neurofibromatosis 2 Treatment: Analysis of Response and Resistance Pathways." in: <b>Molecular cancer therapeutics</b>, (2011) (<a href="#">PubMed</a>).</p> <p>Lallemand, Saint-Amaux, Giovannini: "Tumor-suppression functions of merlin are independent of its role as an organizer of the actin cytoskeleton in Schwann cells." in: <b>Journal of cell science</b>, Vol. 122, Issue Pt 22, pp. 4141-9, (2010) (<a href="#">PubMed</a>).</p> <p>Wang, Lu, Tang, Wang, Wu: "The phosphorylation status of merlin in sporadic vestibular Schwannomas." in: <b>Molecular and cellular biochemistry</b>, Vol. 324, Issue 1-2, pp. 201-6, (2009) (<a href="#">PubMed</a>).</p>
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### Western Blotting

**Image 1.** Affinity purified phospho-specific antibody to NF2 (Merlin) at pS518 was used at a 1:1000 dilution to detect NF2 by Western blot. Approximately 12 ul of a mouse cardiac myocyte lysate was loaded per lane on a 4-20% Criterion gel for SDS-PAGE. Samples were either mock treated (lane 1) or CLA treated at 4nM, 20 nM or 100 nM (lanes 2, 3 and 4 respectively) for 45'. After washing, a 1:5,000 dilution of HRP conjugated Gt-a-Rabbit IgG preceded color development using Amersham's substrate system. Other detection methods will yield similar results.



**Image 2.**