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anti-Merlin antibody (pSer518)

Publications Images



Alternative Name:

Background:

Overview	
Quantity:	100 μg
Target:	Merlin (NF2)
Binding Specificity:	pSer518
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Merlin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)
Product Details	
Immunogen:	Human NF2 (Merlin) phospho-peptide corresponding to a region of the human protein
	surrounding S518 and conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm
Sterility:	Sterile filtered
Target Details	
Target:	Merlin (NF2)

The recently isolated neurofibromatosis 2 tumor suppressor gene encodes a 595 amino acid

NF2 (NF2 Products)

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 75kDa. This antibody			
is specific for the phosphorylated form of human NF2 (Merlin).			
Synonyms: ACN antibody, BANF antibody, SCH, bilateral acoustic neuroma antibody, moesin			
ezrin radixin like protein antibody, Moesin ezrin radizin like protein antibody, Neurofibromatosis			
2 antibody			

Gene ID:	4771
NCBI Accession:	NP_000259
UniProt:	P35240
Pathways:	Cell-Cell Junction Organization

Application Details

Application Notes:	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 immunohistochemistry and immunoprecipitation.

Restrictions: For Research Use only

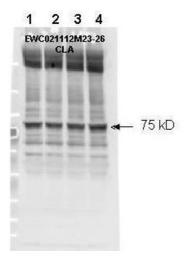
Handling

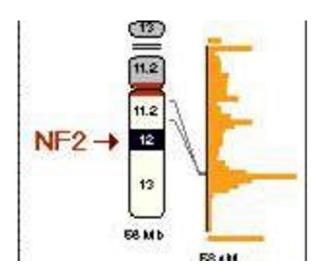
Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Product cited in:

Muşină, Zlei, Mentel, Scripcariu, Ștefan, Aniţei, Filip, Radu, Gavrilescu, Panuţa, Buna-Arvinte, Cordun, Predescu, Scripcariu, Huţanu: "Evaluation of circulating tumor cells in colorectal cancer using flow cytometry." in: **The Journal of international medical research**, Vol. 49, Issue 9, pp. 300060520980215, (2021) (PubMed).

Images





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.