

AP02513PU-N**Polyclonal Antibody to Merlin pSer518 - Aff - Purified****Alternate names:**

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

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

Neurofibromin 2 (NF2) is a tumor suppressor gene encoding the protein Merlin. Merlin is closely related to the ERM (ezrin, radixin, moesin) family of proteins. The precise function of Merlin is not clear. It is thought to provide a link between the actin cytoskeleton and membrane associated proteins, playing a role in transduction of extracellular signals. It has been implicated in cell proliferation and cellular motility.

Mutations in the NF2 gene cause neurofibromatosis type II, a condition characterised by the development of tumors in the central nervous system.

Uniprot ID:

[P35240](#)

NCBI:

[NP_000259.1](#)

GenelD:

[4771](#)

Host:

Rabbit

Immunogen:

The antiserum was produced against synthesized phosphopeptide derived from human Merlin around the phosphorylation site of serine 518 (R-L-SP-M-E).

Format:

State: Liquid purified Ig fraction.

Purification: Affinity Chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Buffer System: PBS (without Mg²⁺ and Ca²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol.

Applications:

Western Blot: 1/500-1/1000.

Immunofluorescence: 1/100-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

AP02513PU antibody detects endogenous levels of Merlin only when phosphorylated at Serine 518.

Species: Human, Mouse and Rat.

Other species not tested.

Storage:

Store the antibody (in aliquots) at -20°C.

Avoid repeated freezing and thawing.

Shelf life: One year from despatch.

General Readings:

1. Guang-Hui Xiao, et,al. (2005) Mol. Cell. Biol ; 25: 2384 - 2394.

2. Hi-Su Yang, et,al. (2006) Cancer Res ; 66: 2708 - 2715.

3. R Bohni, et,al. (1994) J. Biol. Chem ; 269: 14541 - 14545.

4. Adam J. Ratner, et,al. (2001) J. Biol. Chem ; 276: 19267 - 19275.

Pictures:

Figure 2. Immunofluorescence staining of methanol-fixed HeLa cells using Merlin pSer518 antibody AP02513PU (Red).

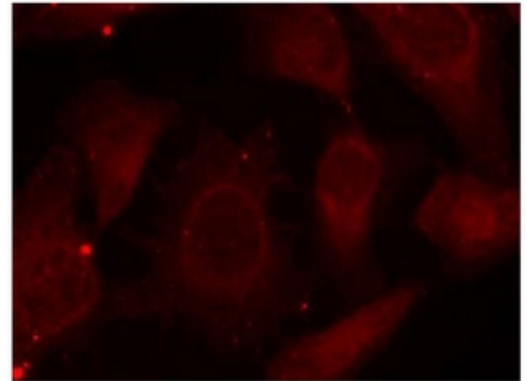


Figure 1. Western blot analysis of extracts from HUVEC cells untreated or treated with IFN-alpha (100ng/ml, 15min), using Merlin antibody AP02759PU (Line 1 and 2) and Merlin pSer518 antibody AP02513PU (Line 3 and 4).

