

AbboMax, Inc

Innovation at Work

Rabbit anti Neurofibromin (Non-Phospho)

Alternate Names: NF1, Neurofibromin-1, 2, 3

Order Information

Description: Rabbit anti-Neurofibromin
(Non-Phospho)
Catalogue#: 620-250
Lot#: See the label
Size: 100 µg/200 µl
Host: Rabbit
Clone: N/A
Application: ELISA, WB
Reactivity: Hu, Rt, Ms, Bv, Dg

ANTIGEN PREPARATION

A synthetic peptide surrounding the epitope –PTSPY- without phosphorylation at human neurofibromin. This sequence is identical among human, rat, mouse, chicken, bovine and dog.

BACKGROUND

The neurofibromatosis type 1 (NF1) tumor suppressor (neurofibromin) is thought to play crucial roles in cellular Ras- and cAMP-dependent kinase (PKA)-associated signals. The absence of or alteration of the neurofibromin protein may lead to neurofibromatosis disease. Recently, a cellular neurofibromin-associating protein, NG,NG-dimethylarginine dimethylaminohydrolase (DDAH) has been identified as a cellular NO/NOS regulator which increases PKA phosphorylation of native neurofibromin in a dose-dependent manner. The PKA accessibility of neurofibromin regulated via DDAH interaction may modulate the cellular function of neurofibromin that is implicated in NF1-related pathogenesis.

PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~240 kDa of human neurofibromin protein without the phosphorylation site of Ser 2741. It does not cross react to phospho NF1. This antibody also reacts with mouse, rat, chicken, bovine and dog. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

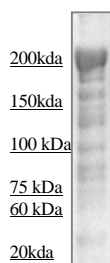
APPLICATIONS/SUGGESTED WORKING DILUTIONS

| | |
|---------------------|----------------|
| Western Blot | 0.1-1 µg/ml |
| ELISA | 0.01-0.1 µg/ml |
| Immunoprecipitation | 2-5 µg/ml |
| IHC | Not tested |
| Flow cytometry | Not tested |

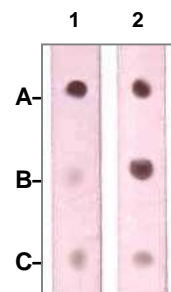
| | |
|---------------------------|-------------|
| MOLECULAR WEIGHT: | 240 kDa |
| POSITIVE CONTROL: | Mouse brain |
| CELLULAR LOCATION: | N/A |

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The whole cell lysates derived from hypoxic mouse brain were immunoblotted by Rabbit anti-NF1(pSer2741) (Cat#620-240) at 1:1000



Dot Blot:

1 µg peptide was blot onto NC membrane
A: NF1 (pS2741)
B: NF1 (Nonphospho);
C: Non-related phosphospecific PP were blotted at a 1:1000 dilution by:

1: Rabbit anti-NF1 (p2741), (Cat#620-240);
2: Rabbit anti-NF1 (paired 2741) (Cat#620-250)

REFERENCES

Tokuo H. Phosphorylation of neurofibromin by cAMP-dependent protein kinase is regulated via a cellular association of NG,NG-dimethylarginine dimethylaminohydrolase. FEBS Letters, Volume 494, Issue 1 - 2, Pages 48 - 53

FOR RESEARCH USE ONLY.

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