

Neurofibromin 1 (D7R7D) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, W-S, IP	H M R Mk	Endogenous	320	Rabbit IgG	#P21359	4763

Product Usage Information**Application**

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:10 - 1:50
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Neurofibromin 1 (D7R7D) Rabbit mAb recognizes endogenous levels of total neurofibromin 1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro360 of human neurofibromin 1 protein.

Background

Neurofibromin is a Ras-specific GTPase activating protein (RasGAP), down-regulating Ras signaling (1). Studies have shown, that mutations in *NF1* inhibit its activity, resulting in benign tumors such as neurofibromas, which may form along nerves throughout the body resulting in neurofibromatosis type 1 (NF1) (2). NF1 is one of the most common autosomal dominant diseases however it remains unclear how mutation of *NF1* may lead to other features of NF1 (3). In addition, *NF1* mutations occur in 5-10% of human sporadic malignancies such as glioblastomas, lung adenocarcinomas, melanomas, breast and ovarian cancers, and acute myeloid leukemias. Mutations in *NF1* can cause resistance to therapies including chemotherapy and radiation therapy (3).

Background References

1. Trovó-Marqui, A.B. and Tajara, E.H. (2006) *Clin Genet* 70, 1-13.
2. Barker, D. et al. (1987) *Science* 236, 1100-2.
3. Ratner, N. and Miller, S.J. (2015) *Nat Rev Cancer* 15, 290-301.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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