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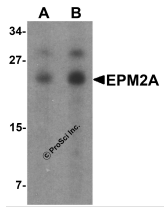
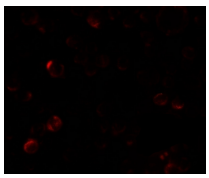
EPM2A Antibody

Cat. No.: 7023



EPM2A Antibody

Immunocytochemistry of EPM2A in SW480 cells with EPM2A antibody at 2.5 µg/ml.



Immunofluorescence of EPM2A in SW480 cells with EPM2A antibody at 5 µg/ml.

Specifications

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	EPM2A antibody was raised against a 17 amino acid synthetic peptide near the carboxy terminus of human EPM2A. The immunogen is located within amino acids 190 - 240 of EPM2A.
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	EPM2A antibody can be used for detection of EPM2A by Western blot at 1 - 2 µg/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

SPECIFICITY:	At least four isoforms of EPM2A are known to exist; this antibody will detect all but the shortest isoform.
POSITIVE CONTROL:	1) Cat. No. 1221 - SW480 Cell Lysate
PREDICTED MOLECULAR WEIGHT:	36 kDa

Properties

PURIFICATION:	EPM2A Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	EPM2A Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	EPM2A antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Additional Info

OFFICIAL SYMBOL:	EPM2A
ALTERNATE NAMES:	EPM2A Antibody: EPM2, MELF, Laforin, Lafora PTPase, LAFPTPase
ACCESSION NO.:	NP_005661
PROTEIN GI NO.:	11321613
GENE ID:	7957
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Background and References

BACKGROUND:	EPM2A Antibody: The Epilepsy, progressive myoclonus type 2A protein (EPM2A) is a dual-specificity phosphatase that associates with polyribosomes. Mutations in this gene have been associated with myoclonic epilepsy of Lafora. EPM2A interacts with a number of proteins known to be involved in glycogen metabolism and has been shown to have robust phosphatase activity against a phosphorylated complex carbohydrate, suggesting that EPM2A may be involved in the regulation of glycogen metabolism.
REFERENCES:	1) Minassian BA, Lee JR, Herbrick JA, et al. Mutations in a gene encoding a novel protein tyrosine phosphatase cause progressive myoclonus epilepsy. Nat. Genet. 1998; 20:171-4.

	2) Worby CA, Gentry MS, and Dixon JE. Laforin, a dual specificity phosphatase that dephosphorylates complex carbohydrates. J. Biol. Chem. 2006; 281:30412-8.