

P311 Rabbit pAb

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Catalog # AP52271

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q16612
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	7909
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human P311
Epitope Specificity	25-68/68
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	P311, also called PTZ17, was identified by suppressive subtraction hybridization as potentially involved in smooth muscle (SM) myogenesis., an 8-kDa polypeptide, was previously shown to be highly expressed in invasive glioma cells. P311 is constitutively serine-phosphorylated; decreased phosphorylation is observed in migration-activated glioma cells. The primary amino acid sequence of P311 indicates a putative serine phosphorylation site (S59) near the PEST domain. Site-directed mutagenesis of S59A retarded P311 degradation and induced glioma cell motility. In contrast, S59D mutation resulted in the rapid degradation of P311 and reduced glioma cell migration.

Additional Information

Gene ID	9315
Other Names	Neuronal regeneration-related protein, Neuronal protein 3.1, Protein p311, NREP, C5orf13, P311
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NREP
Synonyms	C5orf13, P311
Function	May have roles in neural function. Ectopic expression augments motility of gliomas. Also promotes axonal regeneration (By similarity). May also have functions in cellular differentiation (By similarity). Induces differentiation of fibroblast into myofibroblast and myofibroblast ameboid migration. Increases retinoic-acid regulation of lipid-droplet biogenesis (By similarity). Down-regulates the expression of TGFB1 and TGFB2 but not of TGFB3 (By similarity). May play a role in the regulation of alveolar generation.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in lung (at protein level).

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References

Tsui S.K.W.,et al.Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.
Studler J.-M.,et al.Submitted (JUN-1995) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Mariani L.,et al.Cancer Res. 61:4190-4196(2001).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.