

Rabbit Anti-P311 protein antibody

SL0427R

Product Name:	P311 protein
Chinese Name:	神经再生相关蛋白抗体
Alias:	C5orf13; Neuronal protein 3.1; PRO1873; Protein p311; Chromosome 5 open reading frame 13; D4S114; PTZ17; NREP_HUMAN.
文献引用 PubMed :	<p>Specific References(4)SL0427R has been referenced in 4 publications.</p> <p>[IF=0.16]Peng, Xu, et al. "Identification of ITGB4BP as a new interaction protein of P311." Life Sciences (2012).Human. PubMed:22365962</p> <p>[IF=4.50]Li, Haisheng, et al. "P311 induces the transdifferentiation of epidermal stem cells to myofibroblast-like cells by stimulating transforming growth factor β1 expression." Stem Cell Research & Therapy 7.1 (2016): 175.IHC-P;Human. PubMed:27906099</p> <p>[IF=4.50]Yao, Zhihui, et al. "P311 accelerates skin wound reepithelialization by promoting epidermal stem cell migration through Rho A and Rac1 activation." Stem Cells and Development ja (2016).IHC-P;Human, Mouse. PubMed:27927130</p> <p>[IF=5.23]Yao, Zhihui, et al. "P311 promotes renal fibrosis via TGFβ1/Smad signaling." Scientific reports 5 (2015).IHC-P;Mouse. PubMed:26616407</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-

	500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	7.9kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human P311:25-68/68
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	<p>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.</p> <p>Function: May have roles in neural function. Ectopic expression augments motility of gliomas. Promotes also 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.</p> <p>Subunit: Interacts with the latency-associated peptides (LAP) of TGFB1 and TGFB2; the interaction results in a decrease in TGFB autoinduction (By similarity). Interacts with FLNA.</p> <p>Subcellular Location: Cytoplasm.</p> <p>Tissue Specificity: Expressed in lung (at protein level).</p> <p>Post-translational modifications:</p>

Phosphorylated on Ser-59. Phosphorylation decreases stability and activity.

SWISS:

Q16612

Gene ID:

9315

Database links:

[Entrez Gene: 9315](#)Human

[Entrez Gene: 27528](#)Mouse

[Entrez Gene: 338475](#)Rat

[Omim: 607332](#)Human

[SwissProt: Q16612](#)Human

[SwissProt: Q07475](#)Mouse

[SwissProt: Q80Z34](#)Rat

[Unigene: 36053](#)Human

[Unigene: 694860](#)Human

[Unigene: 728773](#)Human

[Unigene: 407415](#)Mouse

[Unigene: 8180](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

P311 protein 还称: PTZ17

(pentylenetetrazd117)又称:增生性瘢痕相关蛋白。该蛋白与烧伤后瘢痕增生修复有关。