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## P311 Rabbit pAb

Catalog Number: bs-0427R

Target Protein: P311

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ELISA (1:5000-10000)

Reactivity: Mouse (predicted:Human, Rat)

Predicted MW: 7.9 kDa

Subcellular Cytoplasm

Locations:

Entrez Gene: 9315

Swiss Prot: Q16612

Source: KLH conjugated synthetic peptide derived from human P311: 25-68/68.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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.

### PRODUCT SPECIFIC PUBLICATIONS

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**[IF=12.121]** Cheng-Cheng Deng. et al. Single-cell RNA-seq reveals fibroblast heterogeneity and increased mesenchymal fibroblasts in human fibrotic skin diseases. Nat Commun. 2021 Jun;12(1):1-16 IF ; Human . 34140509

**[IF=6.6]** Yang Liu. et al. The silencing of NREP aggravates OA cartilage damage through the TGF- $\beta$ 1/Smad2/3 pathway in chondrocytes. J ORTHOP TRANSL. 2024 Jan;44:26 IHC,WB ; Human . 10.1016/j.jot.2023.11.004

[IF=5.23] Yao, Zhihui, et al. "P311 promotes renal fibrosis via TGFβ1/Smad signaling." Scientific reports 5 (2015). IHC ; ="Mouse" . 26616407

[IF=4.5] 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 ; ="Human" . 27906099

[IF=4.5] 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 ; ="Human, Mouse" . 27927130