bs-0427R **[Primary Antibody]**

P311 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9315 **SWISS:** Q16612

Target: P311

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

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

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 Location: Cytoplasm

SELECTED CITATIONS

- **[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-β1/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