bs-20485R **[Primary Antibody]**

SIP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 9839 **SWISS:** O60315

Target: SIP1

Immunogen: KLH conjugated synthetic peptide derived from human SIP1: 721-820/1214.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: SMAD regulates gene expression by interacting with different classes of transcription factors including DNA-binding multi-zinc finger proteins. SIP1, for SMAD interacting protein 1, is a member of the delta-EF1/Zfh1 family of 2-handed zinc finger/homeodomain proteins. SIP1 contains a SMAD-binding domain, a homeodomain and two clusters of zinc fingers on the N- and C-termini. SIP1, also known as SMADIP1, ZFHX1B and ZEB2 (zinc finger E-box-binding protein 2), can be induced by TGF ∫ treatment. SIP1 plays a crucial role in normal embryonic development of neural structures and the neural crest. The human SIP1 gene maps to chromosome 2q22. Mutations in the SIP1 gene cause a form of Hirschsprung disease (HSCR). Patients with SIP1 mutations show mental retardation, delayed motor development, epilepsy, microcephaly, distinct facial features and/or congenital heart disease—all symptoms of HSCR.

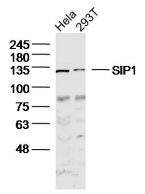
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Rat (predicted: Mouse, Pig, Sheep, Cow, Dog, Horse)

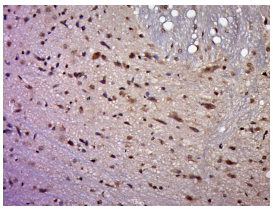
Predicted MW.: 136 kDa

Subcellular Location: Nucleus

VALIDATION IMAGES



Sample: Hela (Human)cell Lysate at 40 ug 293T (Human)cell Lysate at 40 ug Primary: Anti-SIP1 (bs-20485R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 136kD Observed band size: 133kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SIP1) Polyclonal Antibody, Unconjugated (bs-20485R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=4.6]** Lifang Yuan. et al. STEAP3 promotes TNBC growth through the FGFR1-mediated activation of PI3K/AKT/mTOR signaling. ISCIENCE. 2025 四月 24 WB ;Human. 10.1016/j.isci.2025.112526
- **[IF=3.269]** Zhixin Zhao. et al. Zinc Finger E-Box Binding Homeobox 2 (ZEB2)-induced astrogliosis protected neuron

from pyroptosis in cerebral ischemia and reperfusion injury. Bioengineered. 2021;12(2):12917-12930 IF ;Rat. 34852714