OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AP01369PU-N

Smad Interacting Protein 1 (ZEB2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western Blot**: 1/500-1/1000. **Immunohistochemistry on Paraffin Sections**: 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 71-120 of Human SIP1.
Specificity:	This antibody detects endogenous levels of SIP1 protein. (region surrounding Glu101)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~157 kDa
Gene Name:	zinc finger E-box binding homeobox 2
Database Link:	Entrez Gene 24136 MouseEntrez Gene 9839 Human O60315

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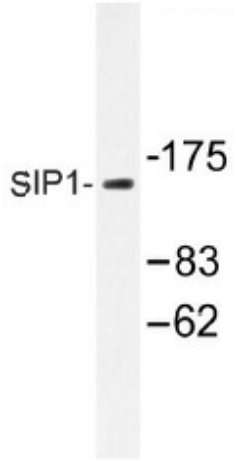
Background: SMAD regulates gene expression by interacting with different classes of transcription factors including DNA-binding multi-zinc finger proteins. SIP1, for SMAD interacting protein 1, is a member of the delta-EF1/Zfh1 family of 2-handed zinc finger/homeodomain proteins. SIP1 contains a SMAD-binding domain, a homeodomain and two clusters of zinc fingers on the N- and C-termini. SIP1, also known as SMADIP1 and ZFHX1B, can be induced by TGF beta 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.

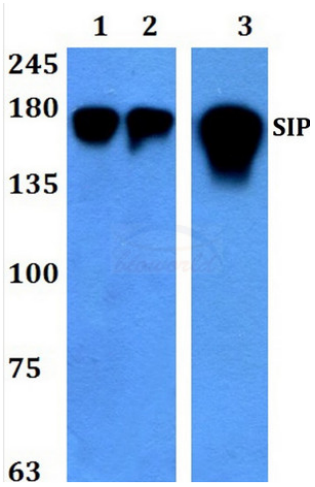
Synonyms: ZFX1B, ZEB2, SMADIP1, SIP1, KIAA0569

Protein Families: Druggable Genome, Transcription Factors

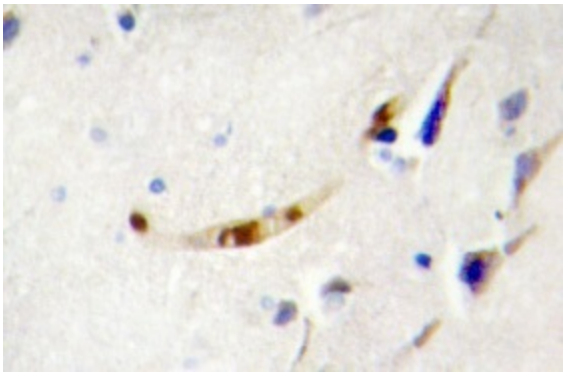
Product images:



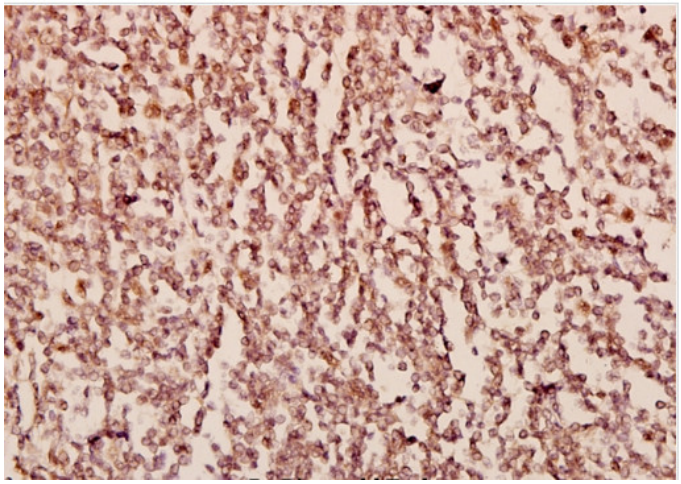
Western blot analysis of SIP1 Antibody at 1/500 dilution: Lane 1: Hela whole cell lysate. Lane 2: HEK293T whole cell lysate. Lane 3: NIH-3T3 whole cell lysate.



Western blot analysis of SIP1 antibody in extracts from HepG2 cells.



Immunohistochemistry analysis of SIP1 Antibody in paraffin-embedded human breast carcinoma tissue at 1/50.



Immunohistochemistry analysis of SIP1 antibody in paraffin-embedded human brain tissue