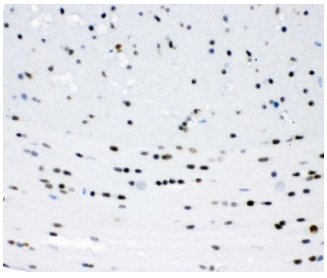
SIP1 Antibody / ZEB2 (R31062)

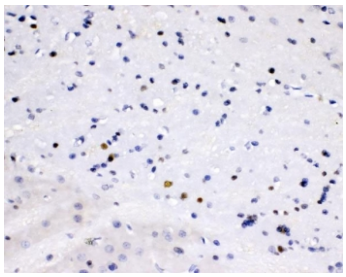
Catalog No.	Formulation	Size
R31062	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

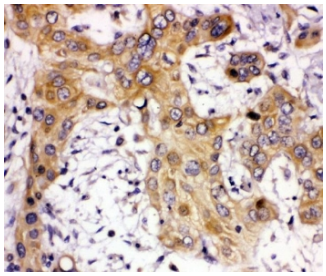
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O60315
Localization	Nucleoli, Nucleoplasm, Cytosol
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-3ug/ml
Limitations	This SIP1 antibody is available for research use only.



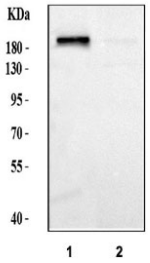
IHC staining of FFPE mouse brain tissue with SIP1 antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



IHC staining of FFPE rat brain tissue with SIP1 antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



IHC staining of FFPE human glioma tissue with SIP1 antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



Western blot testing of human 1) HEL and 2) MCF7 cell lysate with SIP1 antibody. Predicted molecular weight: 120-136 kDa.

Description

ZEB2 (Zinc finger E-box-binding homeobox 2), also known as SIP1 or ZINC FINGER HOMEOBOX 1B (ZFHX1B), is a protein that in humans is encoded by the ZEB2 gene. The ZEB2 gene is a member of the ZEB1/Drosophila Zfh1 family of 2-handed zinc finger/homeodomain proteins and functions as a DNA-binding transcriptional repressor that interacts with activated SMADs, the transducers of TGF-beta signaling, and interacts with the nucleosome remodeling and histone deacetylation (NURD) complex. By radiation hybrid analysis, Nagase et al.(1998) mapped the ZEB2 gene to chromosome 2. Wakamatsu et al.(2001) mapped the ZEB2 gene to chromosome 2q22. Vandewalle et al.(2005) showed that expression of mouse Sip1 in human epithelial cells caused a morphologic change from an epithelial to a mesenchymal phenotype. Expression of SNAI1 in epithelial cells triggers an epithelial-mesenchyme transition. Beltran et al.(2008) showed that synthesis of ZEB2 was upregulated following SNAI1 expression in human cell lines.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SIP1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Smad Interacting Protein 1 (DMQQRRKYQRKQGFQ) was used as the immunogen for this SIP1 antibody (100% homologous in human, mouse and rat).

Storage

After reconstitution, the SIP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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