Product Name: SIP1 Rabbit Polyclonal Antibody
Catalog #: APRab17905

Summary

Production Name	SIP1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ZEB2
Alternative Names	ZEB2; KIAA0569; SIP1; ZFHX1B; ZFX1B; HRIHFB2411; Zinc finger E-box-binding homeobox 2; Smad-interacting protein 1; SMADIP1; Zinc finger homeobox protein 1b
Gene ID	9839.0
SwissProt ID	O60315.The antiserum was produced against synthesized peptide derived from human ZEB2. AA range:71-120

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000..
Molecular Weight	157kD

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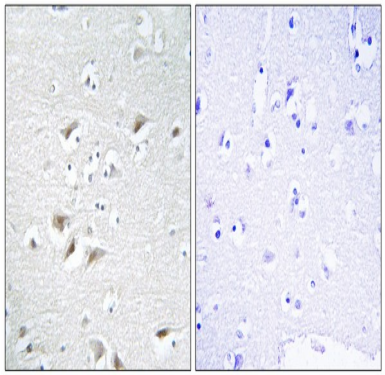
Background

The protein encoded by this gene is a member of the Zfh1 family of 2-handed zinc finger/homeodomain proteins. It is located in the nucleus and functions as a DNA-binding transcriptional repressor that interacts with activated SMADs. Mutations in this gene are associated with Hirschsprung disease/Mowat-Wilson syndrome. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jan 2010],disease:Defects in ZEB2 are the cause of Hirschsprung disease-mental retardation syndrome (Hirschsprung disease) [MIM:235730]; also known as Mowat-Wilson syndrome (MWS). Hirschsprung disease is a rare autosomal dominant complex developmental disorder. Individuals with functional null mutations present with mental retardation, delayed motor development, epilepsy, and a wide spectrum of clinically heterogeneous features suggestive of neurocristopathies at the cephalic, cardiac, and vagal levels. Affected patients show an easily recognizable facial appearance with deep set eyes and hypertelorism, medially divergent, broad eyebrows, prominent columella, pointed chin and uplifted, notched ear lobes. Additionally, the phenotypic spectrum of facultative congenital anomalies includes short stature, microcephaly, Hirschsprung disease, malformations of the brain (agenesis of corpus callosum, cerebral atrophy) and eye (microphthalmia), seizures, congenital heart defects and genitourinary malformations, in particular hypospadias. The development of psychomotor skills and speech is delayed in most patients. Overall, the grade of mental retardation is at least moderate, but usually severe including characteristic abnormal behavior.,function:Transcriptional inhibitor that binds to DNA sequence 5'-CACCT-3' in different promoters. Represses transcription of E-cadherin.,PTM:Sumoylation on Lys-391 and Lys-866 is promoted by the E3 SUMO-protein ligase CBX4, and impairs interaction with CTBP1 and transcription repression activity.,similarity:Belongs to the delta-EF1/ZFH-1 C2H2-type zinc-finger family.,similarity:Contains 1 homeobox DNA-binding domain.,similarity:Contains 7 C2H2-type zinc fingers.,subunit:Binds activated SMAD1, activated SMAD2 and activated SMAD3; binding with SMAD4 is not detected (By similarity). Interacts with CBX4 and CTBP1.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ZEB2 Antibody. The picture on the right is

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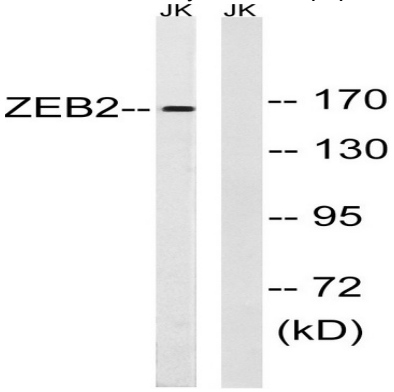
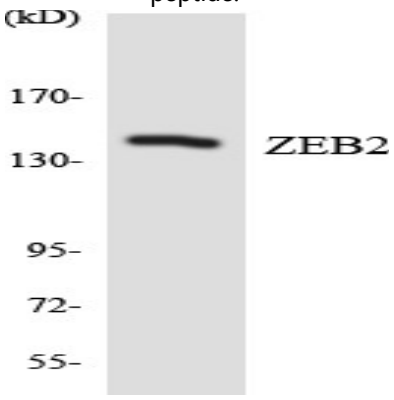
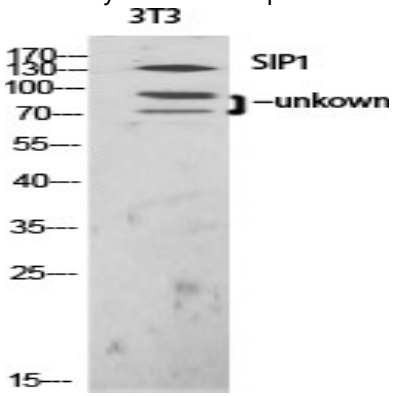
blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using ZEB2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using ZEB2 antibody.



Western Blot analysis of various cells using SIP1 Polyclonal Antibody diluted at 1：1000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.

Note

For research use only.