SIP1 Rabbit pAb

CatalogNo: YT4300 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 157kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:10000
IF 1:50-200

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human ZEB2. AA range:71-120
Specificity	SIP1 Polyclonal Antibody detects endogenous levels of SIP1 protein.

Target Information

Gene name ZEB2

Protein Name Zinc finger E-box-binding homeobox 2

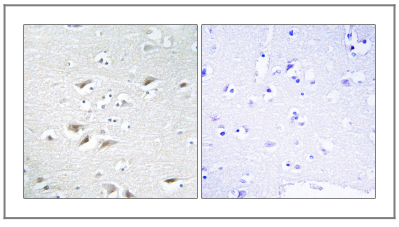
Organism	Gene ID	UniProt ID
Human	9839;	O60315;
Mouse	24136;	Q9R0G7;

Cellular Localization Nucleus . Chromosome .

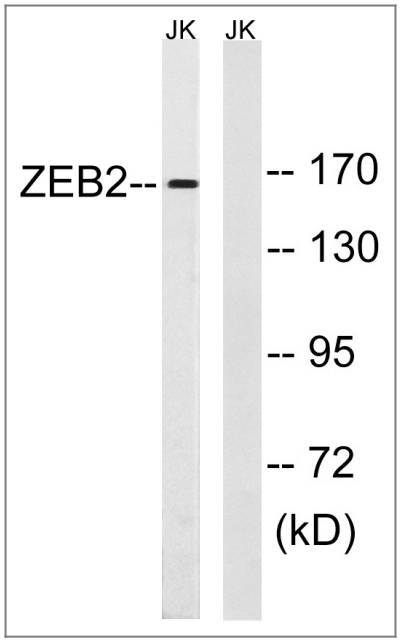
Tissue specificity Brain,Fetal brain,

Function 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.,

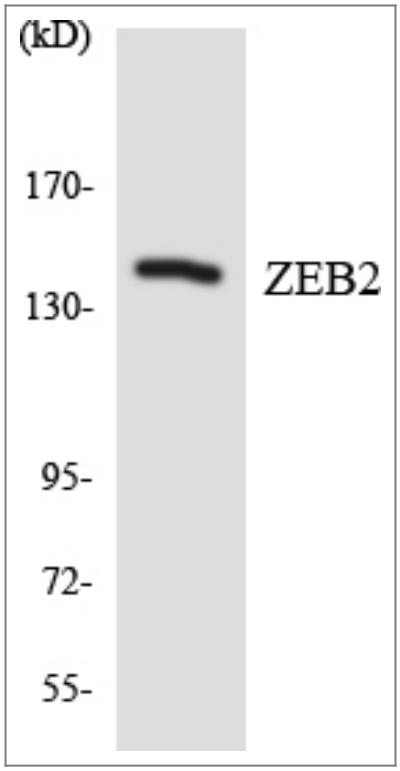
Validation Data



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

Contact information

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Please scan the QR code to access additional product information:
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