Datasheet for ABIN2779567

anti-ID4 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	ID4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Pig, Dog, Zebrafish (Danio rerio), Cow, Guinea Pig, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ID4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ID4
Sequence:	CYSRLRRLVP TIPPNKKVSK VEILQHVIDY ILDLQLALET HPALLRQPPP
Predicted Reactivity:	Cow: 85%, Dog: 100%, Guinea Pig: 85%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 79%, Rat: 100%, Zebrafish: 86%
Characteristics:	This is a rabbit polyclonal antibody against ID4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ID4

Target Details

Alternative Name:	ID4 (ID4 Products)
Background:	Transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins.Transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins (Pagliuca et al., 1995 [PubMed 7665172]).[supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: IDB4, bHLHb27 Protein Interaction Partner: TCF3, TCF4, ID3, MYOD1, HES1, Protein Size: 161
Molecular Weight:	16 kDa
Gene ID:	3400
NCBI Accession:	NM_001546, NP_001537
UniProt:	P47928

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 161 AA
Restrictions:	For Research Use only

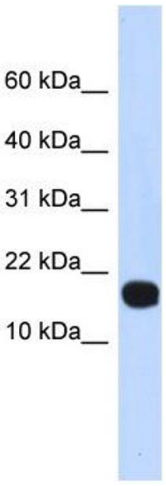
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

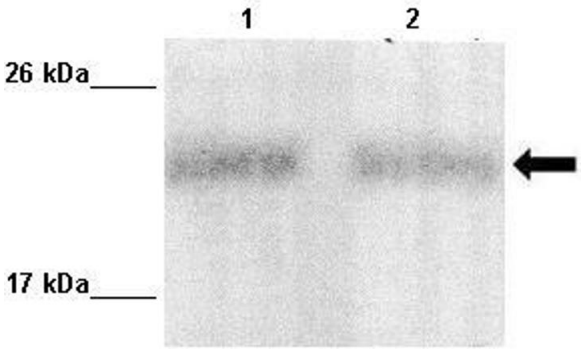
Images



ID4

Western Blotting

Image 1. WB Suggested Anti-ID4 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 293T cell lysate ID4 is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells



Western Blotting

Image 2. Lanes : Lane 1: 10ug MDA-MB231 lysateLane 2: 10ug MCF7 lysate Primary Antibody Dilution : 1:1000 Secondary Antibody : Anti-rabbit-HRP Secondary Antibody Dilution : 1:10,000 Gene Name : ID4 Submitted by : Maria Teresita Branham. Facultad de Cs MÃ©dicas-UNCuyo