

Product datasheet for **TA330251**

ID4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-ID4 antibody: synthetic peptide directed towards the middle region of human ID4. Synthetic peptide located within the following region: CYSRLRRLVPTIPPNNKKVSKVEILQHVIDYILDQLALETHPALLRQPPP
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	16 kDa
Gene Name:	inhibitor of DNA binding 4, HLH protein
Database Link:	NP_001537 Entrez Gene 3400 Human P47928



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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.

Synonyms:

bHLHb27; IDB4

Note:

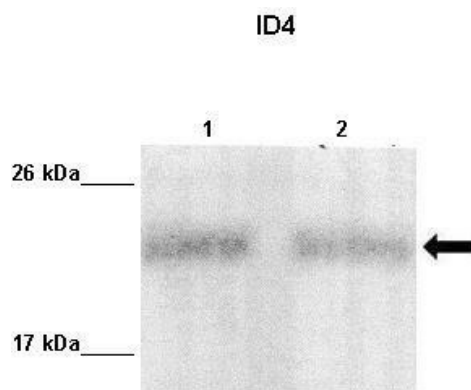
Immunogen sequence homology: Dog: 100%; Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Horse: 93%; Zebrafish: 86%; Bovine: 85%; Guinea pig: 85%; Rabbit: 79%

Protein Families:

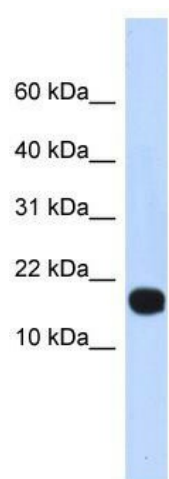
ES Cell Differentiation/IPS, Transcription Factors

Protein Pathways:

TGF-beta signaling pathway

Product images:


Lanes : Lane 1: 10ug MDA-MB231 lysate Lane 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 Mèdic



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