Datasheet for ABIN719698

anti-ID4 antibody (AA 61-160) (Biotin)

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Overview

Quantity:	100 µL
Target:	ID4
Binding Specificity:	AA 61-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ID4 antibody is conjugated to Biotin
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ID4
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Pig
Purification:	Purified by Protein A.

Target Details

Target:	ID4
Alternative Name:	ID4 (ID4 Products)

Target Details

Background:	Synonyms: bHLHb27, Class B basic helix-loop-helix protein 27, DNA binding protein inhibitor ID 4, DNA binding protein inhibitor ID4, DNA-binding protein inhibitor ID-4, ID 4, Id4, ID4_HUMAN, IDB4, Inhibitor of DNA binding 4, Inhibitor of DNA binding 4 dominant negative helix loop helix protein. Background: Members of the Id family of basic helix-loop-helix (bHLH) proteins include Id1 (13), Id2 (4), Id3 and Id4 (5). They are ubiquitously expressed and dimerize with members of the class A and B HLH proteins (15). Due to the absence of the basic region, the resulting heterodimers cannot bind DNA. The Id-type proteins thus appear to negatively regulate DNA binding of bHLH proteins. Since Id1 inhibits DNA binding of E12 and Myo D, it apparently functions to inhibit muscle-specific gene expression. Under conditions that facilitate muscle cell differentiation, the Id protein levels fall, allowing E12 and/or E47 to form heterodimers with Myo D and myogenin, which in turn activate myogenic differentiation. It has been shown that expression of each of the Id proteins is strongly dependent on growth factor activation and that reduction of Id mRNA levels by antisense oligonucleotides leads to a delayed reentry of arrested cells into the cell cycle following growth factor stimulation.
Gene ID:	3400

Application Details

Application Notes:	IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.

Handling

Expiry Date:	12 months