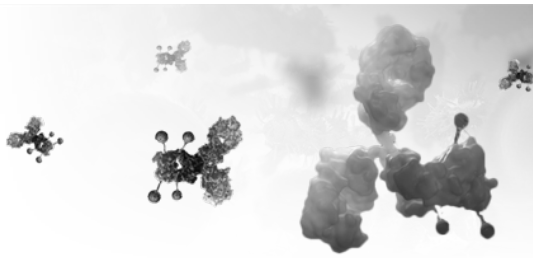

Rabbit Anti-Human ID3 monoclonal antibody, Clone 28-4 (CABT-L1920)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Reacts with mouse and human ID3. Other species have not been tested.
Target	Mouse ID3, Human ID3
Immunogen	Recombinant full length human Id3 recombinant protein.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse
Clone	28-4
Purification	Protein G Purified
Conjugate	Unconjugated
Applications	WB, IHC
Format	Liquid (cell culture supernatant)
Buffer	Cell culture supernatant with 0.25% BSA
Preservative	0.05% Sodium Azide
Storage	2-8°C. DO NOT FREEZE. Precipitation may occur upon freezing.

BACKGROUND

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Introduction	There are four members of the Id protein family, Id1, Id2, Id3, and Id4. These proteins were initially discovered as proteins involved in the negative control of cell differentiation. Id proteins act as a negative regulator of transcription through physical interaction with a group of transcription factors known as bHLH (basic helix-loop-helix) proteins. Id proteins interact with bHLH proteins in a manner that prevents DNA binding to the HLH proteins. Because of this activity, the group of proteins were named as Id (for inhibitor of DNA binding). Id proteins have also been found to bind with a number of other proteins such as Rb, Ets, Paz, MIDA-1 and SREBP-1c. Id proteins may play a central role in coordinating gene expression, cell proliferation, tumorigenesis, and angiogenesis. Id proteins have been found to be over-expressed in many types, including Glioblastoma, Medulloblastoma, Neuroblastoma, Pancreatic Cancer, Thyroid Cancer, Squamous Cell Carcinoma, Breast Carcinoma, Endometrial Cancer, Cervical Cancer, Melanoma, and Retinoblastoma. There is a growing body of evidence that Id1 and Id3 play a central role in angiogenesis. Experiments in Id1-/-, Id3-/- knockout mice indicated that with the loss of Id expression there was no vascularization and no subsequent growth of tumors.
Keywords	ID3; inhibitor of DNA binding 3; DNA-binding protein inhibitor ID-3; Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein

GENE INFORMATION

Gene Name	ID3 inhibitor of DNA binding 3, dominant negative helix-loop-helix protein [Homo sapiens (human)]
Official Symbol	ID3
Synonyms	ID3; inhibitor of DNA binding 3; DNA-binding protein inhibitor ID-3; Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein
Entrez Gene ID	3399
UniProt ID	Q02535
Chromosome Location	1p36.13-p36.12
Pathway	Adipogenesis; Id Signaling Pathway; TGF-beta signaling pathway
Function	protein binding; protein dimerization activity; protein domain specific binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; transcription factor binding;

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