



Rabbit Anti-ID3 antibody

SL6229R

Product Name:	ID3
Chinese Name:	DNA结合抑制因子3抗体
Alias:	1R21; bHLHb25; Class B basic helix-loop-helix protein 25; DNA binding protein inhibitor ID 3; DNA-binding protein inhibitor ID-3; HEIR 1; HEIR1; Helix loop helix protein HEIR 1; Helix loop helix protein HEIR1; Helix-loop-helix protein HEIR-1; HLH642; ID 3; ID like protein inhibitor HLH 1R21; ID like protein inhibitor HLH 462; ID-like protein inhibitor HLH 1R21; ID3_HUMAN; Inhibitor of DNA binding 3; Inhibitor of DNA binding 3 dominant negative helix loop helix protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	13kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ID3:25-119/119
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	ID (inhibitor of DNA binding) HLH proteins lack a basic DNA-binding domain but are able to form heterodimers with other HLH proteins, thereby inhibiting DNA binding.

ID-3 inhibits the binding of E2A-containing protein complexes to muscle creatine kinase E-box enhancer. May inhibit other transcription factors.

Function:

ID (inhibitor of DNA binding) HLH proteins lack a basic DNA-binding domain but are able to form heterodimers with other HLH proteins, thereby inhibiting DNA binding. Involved in myogenesis by inhibiting skeletal muscle and cardiac myocyte differentiation and promoting muscle precursor cells proliferation. Inhibits the binding of E2A-containing protein complexes to muscle creatine kinase E-box enhancer. May inhibit other transcription factors.

Subunit:

Interacts with COPS5 and COPS7A (By similarity). Homodimer, and heterodimer with other HLH proteins.

Subcellular Location:

Nucleus.

Tissue Specificity:

Expressed abundantly in lung, kidney and adrenal gland, but not in adult brain.

Similarity:

Contains 1 bHLH (basic helix-loop-helix) domain.

SWISS:

Q02535

Gene ID:

3399

Database links:

[Entrez Gene: 3399](#)Human

[Entrez Gene: 15903](#)Mouse

[Omim: 600277](#)Human

[SwissProt: Q02535](#)Human

[SwissProt: P41133](#)Mouse

[Unigene: 76884](#)Human

[Unigene: 110](#)Mouse

Important Note:

	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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