

Rabbit ID3 Polyclonal Antibody | anti-ID3 antibody

ID3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328672	Rabbit	Human, Mouse, RatPredicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken	Western Blot

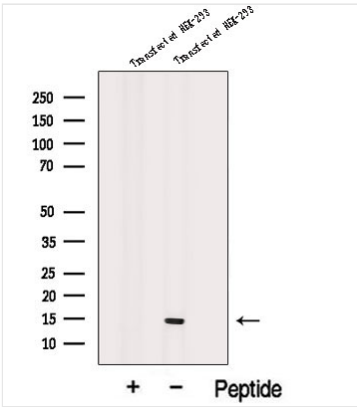
PRODUCT SYNONYMS

ID3; Polyclonal Antibody; ID3 Antibody; 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; anti-ID3 antibody

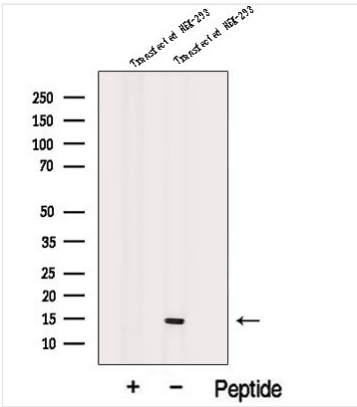
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Clonality	Polyclonal
Isotype	IgG
Specificity	ID3 Antibody detects endogenous levels of ID3.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	119
Applicable Applications for anti-ID3 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human ID3.
Tissue Specificity	Expressed abundantly in lung, kidney and adrenal gland, but not in adult brain.
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from Transfected HEK-293 cells, using ID3 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Mouse brain, using ID3 Antibody. The lane on the left was treated with blocking peptide. Observed bands: 42 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ID3 antibody	Description: Transcriptional regulator (lacking a basic DNA binding domain) which negatively regulates the basic helix-loop-helix (bHLH) transcription factors by forming heterodimers and inhibiting their DNA binding and transcriptional activity. Implicated in regulating a variety of cellular processes, including cellular growth, senescence, differentiation, apoptosis, angiogenesis, and neoplastic transformation. 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. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. Subunit Structure: Homodimer, and heterodimer with other HLH proteins. Interacts with COP5 and COP7A. Interacts with IFI204. Interacts with GATA4 and NKX2-5. Interacts with ANKRD2; both proteins cooperate in myoblast differentiation (By similarity). Interacts with CLOCK and ARNTL/BMAL1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	322510035
NCBI GeneID	3399
UniProt Accession #	Q02535
Molecular Weight	Observed: 14 kDa Predicted: 13 kDa
NCBI Official Full Name	DNA-binding protein inhibitor ID-3
NCBI Official Synonym Full Names	inhibitor of DNA binding 3, HLH protein
NCBI Official Symbol	ID3
NCBI Official Synonym Symbols	HEIR-1; bHLHb25
NCBI Protein Information	DNA-binding protein inhibitor ID-3
UniProt Protein Name	DNA-binding protein inhibitor ID-3
UniProt Gene Name	ID3
UniProt Synonym Gene Names	1R21; BHLHB25; HEIR1
UniProt Entry Name	ID3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

