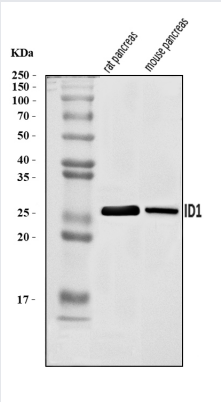
ID1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Id1, Polyclonal Antibody
Full Product Name	Anti-Id1 Antibody Picoband
Product Gene Name	anti-ID1 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Molecular Weight	15,560 Da
3D Structure	ModBase 3D Structure for P20067
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived mouse Id1 recombinant protein (Position: C16-I168).
Product Categories/Family for anti-ID1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-ID1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-ID1 antibody	WB: 0.1-0.25 ug/ml, Mouse, Rat Direct ELISA: 0.1-0.5 ug/ml, Mouse Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.
Related Product Information for anti-ID1 antibody	DNA-binding protein inhibitor ID-1 is a protein that in humans is encoded by the ID1 gene. The protein encoded by this gene is a helix-loop-helix (HLH) protein that can form heterodimers with members of the basic HLH family of transcription factors. The encoded protein has no DNA binding activity and therefore can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. This protein may play a role in cell growth, senescence, and differentiation. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of anti-ID1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ID1 purchase	MBS1754846 is an antibody targeting ID1. Also known as Anti-Id1 Antibody Picoband. Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-ID1 antibody

Figure 1. Western blot analysis of ID1 using anti-ID1 antibody (MBS1754846).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat pancreas tissue lysates,Lane 2: mouse pancreas tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ID1 antigen affinity purified polyclonal antibody (#MBS1754846) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ID1 at approximately 25 kDa. The expected band size for ID1 is at 25 kDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ID1. It may not necessarily be applicable to this product.

NCBI GI #	2827752
NCBI GeneID	15901
NCBI Accession #	P20067.3
UniProt Primary Accession #	P20067
UniProt Secondary Accession #	Q61101; Q9D897
UniProt Related Accession #	P20067
NCBI Official Full Name	DNA-binding protein inhibitor ID-1
NCBI Official Synonym Full Names	inhibitor of DNA binding 1
NCBI Official Symbol	Id1
NCBI Official Synonym Symbols	Idb1; bHLHb24; AI323524; D2Wsu140e
UniProt Protein Name	DNA-binding protein inhibitor ID-1
UniProt Synonym Protein Names	Inhibitor of DNA binding 1; Inhibitor of differentiation 1
Protein Family	DNA-binding protein inhibitor
UniProt Gene Name	Id1
UniProt Synonym Gene Names	Id; Id-1; Idb1
NCBI Protein Information	DNA-binding protein inhibitor ID-1

UniProt Comments for ID1	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. Inhibits skeletal muscle and cardiac myocyte differentiation. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer.
Research Articles on ID1	**1.** a loss of CULLIN3 represents a common signaling node for controlling the activity of intracellular WNT and SHH signaling pathways mediated by ID1
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