

Rabbit ID2 Polyclonal Antibody | anti-ID2 antibody

Phospho-ID2 (Thr27) Antibody

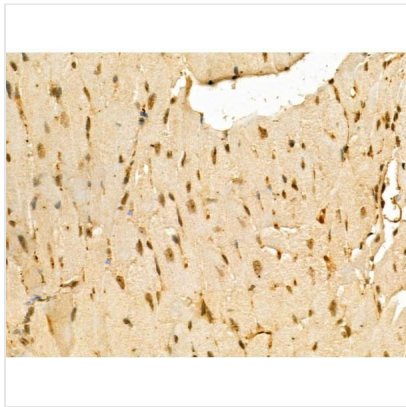
CATALOG # AAA31291	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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PRODUCT SYNONYMS

ID2; Polyclonal Antibody; Phospho-ID2 (Thr27) Antibody; bHLHb26; Cell growth inhibiting gene 8; class B basic helix loop helix protein 26; Class B basic helix-loop-helix protein 26; DNA binding protein inhibitor ID 2; DNA binding protein inhibitor ID2; DNA-binding protein inhibitor ID-2; GIG 8; GIG8; Helix loop helix protein ID2; ID2_HUMAN; ID2A; ID2H; Inhibitor of differentiation 2; Inhibitor of DNA binding 2; dominant negative helix loop helix protein; MGC26389; anti-ID2 antibody

PRODUCT SPECIFICATIONS

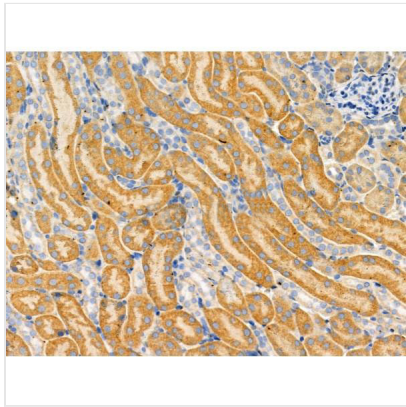
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-ID2 (Thr27) Antibody detects endogenous levels of ID2 only when phosphorylated at Thr27. Tissue Specificity: Highly expressed in early fetal tissues, including those of the central nervous system.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ID2 antibody	IHC (Immunohistochemistry), ELISA (Peptide ELISA)
Application Notes	IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human ID2 around the phosphorylation site of Thr27.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Heterodimer with other HLH proteins. Interacts with GATA4, IFI204 and NKX2-5 (By similarity). Interacts with NR0B2. Interacts with CLOCK and ARNTL/BMAL1.
Similarity	The bHLH domain is essential for its repressor activity towards the CLOCK-ARNTL/BMAL1 heterodimer.
Subcellular Location	Cytoplasm. Nucleus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



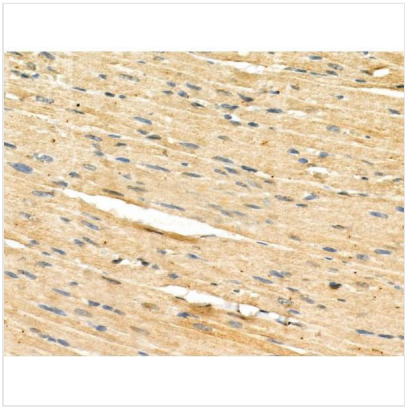
IHC (Immunohistochemistry)
At 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



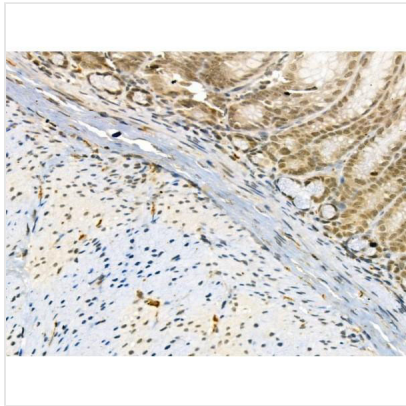
IHC (Immunohistochemistry)
At 1/100 staining Mouse liver tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



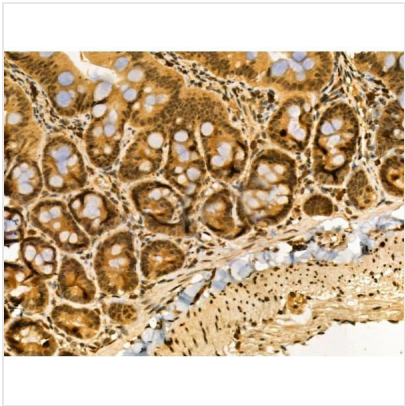
IHC (Immunohistochemistry)
At 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Rat stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ID2 antibody	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. Restricts the CLOCK and ARNTL/BMAL1 localization to the cytoplasm. Plays a role in both the input and output pathways of the circadian clock: in the input component, is involved in modulating the magnitude of photic entrainment and in the output component, contributes to the regulation of a variety of liver clock-controlled genes involved in lipid metabolism.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	729806
NCBI GeneID	3398
UniProt Accession #	Q02363
NCBI Official Full Name	DNA-binding protein inhibitor ID-2
NCBI Official Synonym Full Names	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
NCBI Official Symbol	ID2
NCBI Official Synonym Symbols	GIG8; ID2A; ID2H; bHLHb26
NCBI Protein Information	DNA-binding protein inhibitor ID-2; helix-loop-helix protein ID2; cell growth-inhibiting gene 8; inhibitor of differentiation 2; DNA-binding protein inhibitor ID2; class B basic helix-loop-helix protein 26
UniProt Protein Name	DNA-binding protein inhibitor ID-2
UniProt Gene Name	ID2
UniProt Synonym Gene Names	BHLHB26; bHLHb26
UniProt Entry Name	ID2_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/id2-antibody-immunohistochemistry-peptide-elisa-elisa/31291>