



## Rabbit Anti-ID2 antibody

SL3515R

<b>Product Name:</b>	ID2
<b>Chinese Name:</b>	DNA结合抑制因子2抗体
<b>Alias:</b>	GIG-8; GIG8; GIG 8; Helix loop helix protein ID2; ID2A; ID-2; ID2H; Inhibitor of differentiation 2; Inhibitor of DNA binding 2; Inhibitor of DNA binding 2, dominant negative helix loop helix protein; MGC26389; bHLHb26; Cell growth inhibiting gene 8; DNA binding protein inhibitor ID 2; BHLHB26; ID2_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	15kDa
<b>Cellular localization:</b>	The nucleocytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GIG8/ID2:31-134/134
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene belongs to the inhibitor of DNA binding (ID) family, and may play a role in negatively regulating cell differentiation. Members of the ID family are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. They inhibit the functions of basic helix-loop-helix transcription

factors in a dominant-negative manner, by suppressing their heterodimerization partners through the HLH domains.

**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. ID-2 may be an inhibitor of tissue-specific gene expression.

**Subunit:**

Heterodimer with other HLH proteins. Interacts with GATA4, IFI204 and NKX2-5. Interacts with NR0B2.

**Subcellular Location:**

Cytoplasm. Nucleus.

**Tissue Specificity:**

Highly expressed in early fetal tissues, including those of the central nervous system.

**Similarity:**

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

**SWISS:**

Q02363

**Gene ID:**

3398

**Database links:**

[Entrez Gene: 3398](#)Human

[Entrez Gene: 15902](#)Mouse

[Omim: 600386](#)Human

[SwissProt: Q02363](#)Human

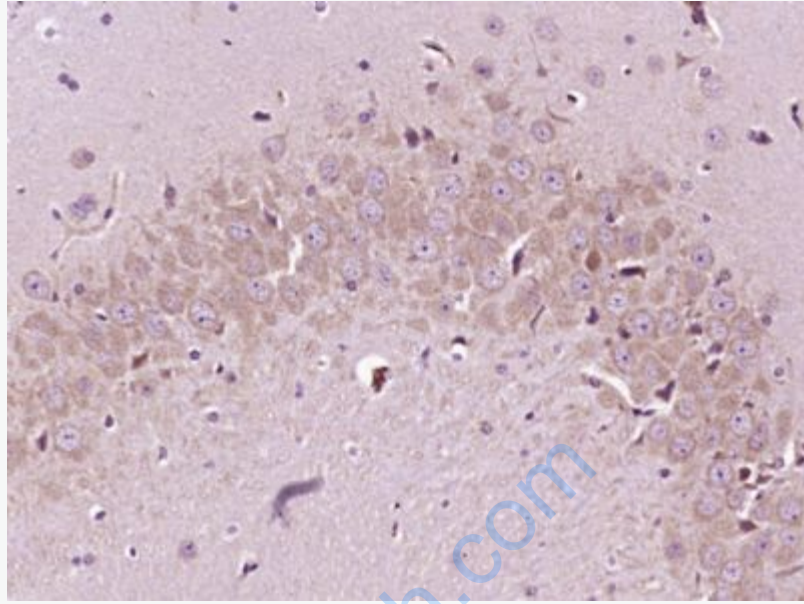
[SwissProt: P41136](#)Mouse

[Unigene: 180919](#)Human

[Unigene: 34871](#)Mouse

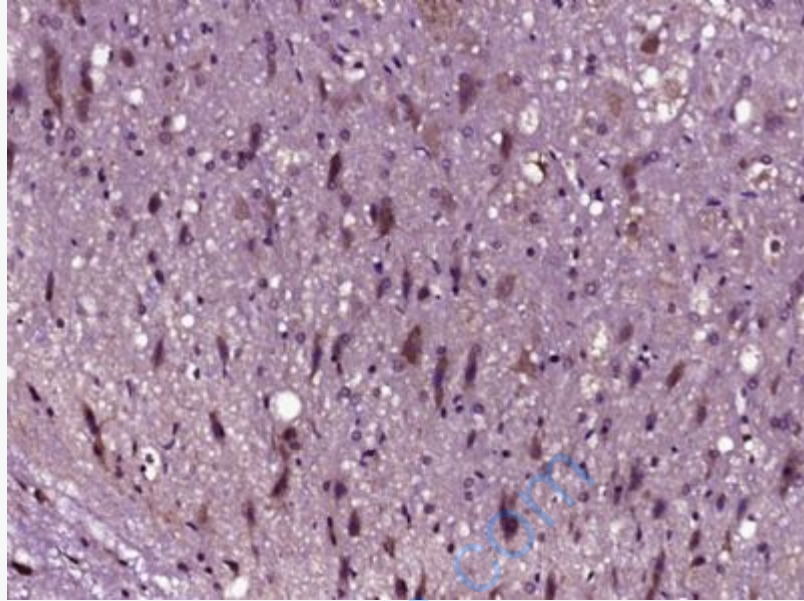
**Important Note:**

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



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ID2) Polyclonal Antibody, Unconjugated (SL3515R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ID2) Polyclonal Antibody, Unconjugated (SL3515R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.