

**ID1 Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50188****Specification**

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**ID1 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P</b>
Primary Accession	<a href="#">P41134</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>H=16;M=18,16;R=17,16; KDa</b>
Antigen Region	<b>51-155/155 human</b>

**ID1 Antibody (Center) - Additional Information****Gene ID** 3397**Other Names**

DNA-binding protein inhibitor ID-1, Class B basic helix-loop-helix protein 24, bHLHb24, Inhibitor of DNA binding 1, Inhibitor of differentiation 1, ID1, BHLHB24, ID

**Dilution**

<span class = "dilution\_WB">WB~~ 1:500</span><br \><span class = "dilution\_IHC-P">IHC-P~~1:100~1:500</span>

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

**ID1 Antibody (Center) - Protein Information****Name** ID1**Synonyms** BHLHB24, ID**Function**

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-BMAL1 heterodimer (By similarity).

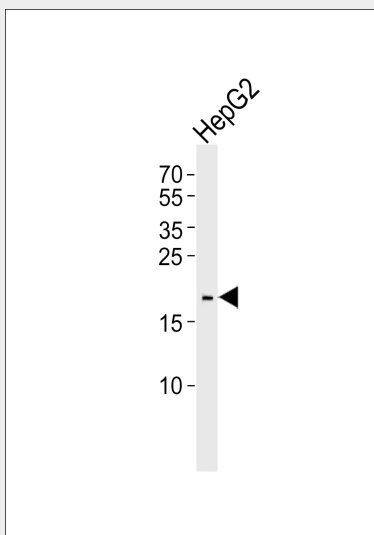
**Cellular Location**  
Cytoplasm. Nucleus.

### ID1 Antibody (Center) - Protocols

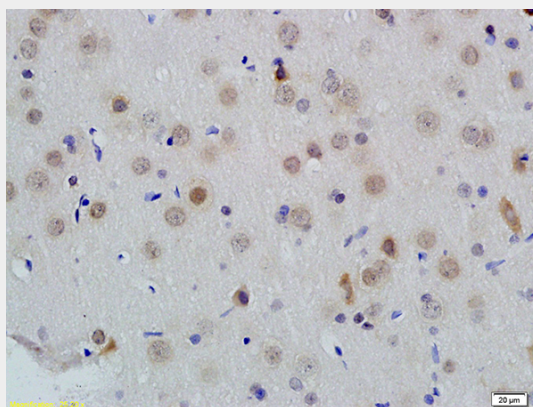
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### ID1 Antibody (Center) - Images

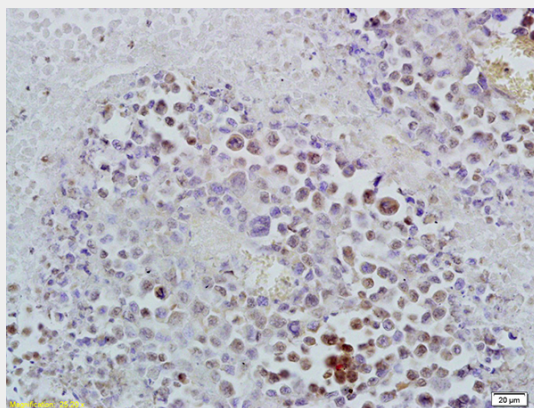


Western blot analysis of lysate from HepG2 cell line, using ID1 Antibody (Center) (AP50188). AP50188 was diluted at 1:500. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.

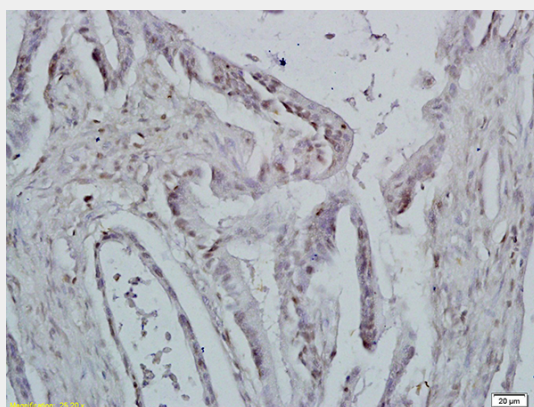


Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-ID1 Polyclonal Antibody, Unconjugated (AP50188) at 1:200 followed by conjugation to the secondary antibody and DAB

## staining



Formalin-fixed and paraffin embedded mouse lymphoma tissue labeled with Anti-ID1 Polyclonal Antibody, Unconjugated (AP50188) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Formalin-fixed and paraffin embedded human colon carcinoma labeled with Anti-ID1 Polyclonal Antibody, Unconjugated (AP50188) at 1:200 followed by conjugation to the secondary antibody and DAB staining

### **ID1 Antibody (Center) - Background**

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.

### **ID1 Antibody (Center) - References**

- Deed R.W.,et al.Biochim. Biophys. Acta 1219:160-162(1994).  
Hara E.,et al.J. Biol. Chem. 269:2139-2145(1994).  
Zhu W.,et al.Brain Res. Mol. Brain Res. 30:312-326(1995).  
Nehlin J.O.,et al.Biochem. Biophys. Res. Commun. 231:628-634(1997).  
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.