

## **ID3 Antibody (monoclonal) (M02)**

**Mouse monoclonal antibody raised against a partial recombinant ID3.**

**Catalog # AT2477a**

### **Specification**

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#### **ID3 Antibody (monoclonal) (M02) - Product Information**

Application	<b>IF, WB, E</b>
Primary Accession	<a href="#">O02535</a>
Other Accession	<a href="#">NM_002167</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG3 Kappa</b>
Calculated MW	<b>12999</b>

#### **ID3 Antibody (monoclonal) (M02) - Additional Information**

**Gene ID** 3399

#### **Other Names**

DNA-binding protein inhibitor ID-3, Class B basic helix-loop-helix protein 25, bHLHb25, Helix-loop-helix protein HEIR-1, ID-like protein inhibitor HLH 1R21, Inhibitor of DNA binding 3, Inhibitor of differentiation 3, ID3, 1R21, BHLHB25, HEIR1

#### **Target/Specificity**

ID3 (NP\_002158, 1 a.a. ~ 83 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### **Dilution**

WB~~1:500~1000

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### **Precautions**

ID3 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

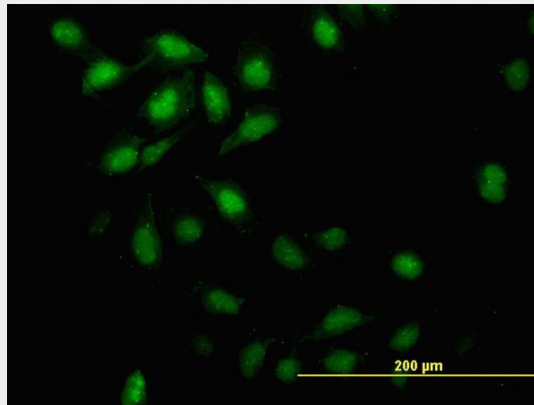
#### **ID3 Antibody (monoclonal) (M02) - Protocols**

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

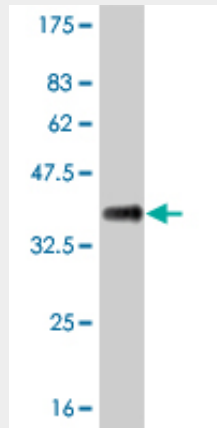
- [Western Blot](#)
- [Blocking Peptides](#)

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

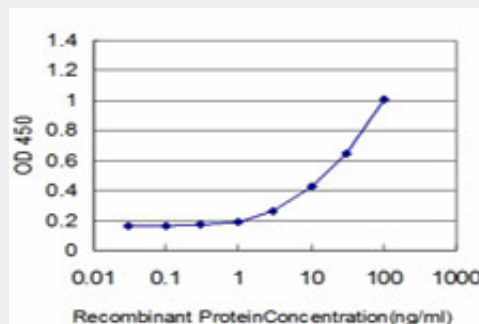
**ID3 Antibody (monoclonal) (M02) - Images**



Immunofluorescence of monoclonal antibody to ID3 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.87 KDa) .



Detection limit for recombinant GST tagged ID3 is approximately 0.3ng/ml as a capture antibody.

**ID3 Antibody (monoclonal) (M02) - Background**

Members of the ID family of helix-loop-helix (HLH) proteins lack a basic DNA-binding domain and inhibit transcription through formation of nonfunctional dimers that are incapable of binding to DNA.

### **ID3 Antibody (monoclonal) (M02) - References**

Id3 is a novel atheroprotective factor containing a functionally significant single-nucleotide polymorphism associated with intima-media thickness in humans. Doran AC, et al. *Circ Res*, 2010 Apr 16. PMID 20185798. Integrative predictive model of coronary artery calcification in atherosclerosis. McGeachie M, et al. *Circulation*, 2009 Dec 15. PMID 19948975. Id1/Id3 knockdown inhibits metastatic potential of pancreatic cancer. Shuno Y, et al. *J Surg Res*, 2010 Jun 1. PMID 19515385. Fibroblast growth factor 2 reactivates G1 checkpoint in SK-N-MC cells via regulation of p21, inhibitor of differentiation genes (Id1-3), and epithelium-mesenchyme transition-like events. Higgins S, et al. *Endocrinology*, 2009 Sep. PMID 19477940. UVB upregulates the bax promoter in immortalized human keratinocytes via ROS induction of Id3. Trabosh VA, et al. *Exp Dermatol*, 2009 Apr. PMID 19054058.