

Datasheet for ABIN7126536  
**anti-ID1 antibody (AA 5-150)**



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## Overview

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|----------------------|-------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                                          |
| Target:              | ID1                                                                                             |
| Binding Specificity: | AA 5-150                                                                                        |
| Reactivity:          | Human                                                                                           |
| Host:                | Mouse                                                                                           |
| Clonality:           | Monoclonal                                                                                      |
| Conjugate:           | This ID1 antibody is un-conjugated                                                              |
| Application:         | ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Coating (Coat), Immunoprecipitation (IP) |

## Product Details

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| Immunogen:   | Recombinant fragment (aa 5-150) of human ID1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Isotype:     | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity: | Members of the Id family of basic helix-loop-helix (bHLH) proteins include Id1, Id2, Id3 and Id4. They are ubiquitously expressed and dimerize with members of the class A and B HLH proteins. Due to the absence of the basic region, the resulting heterodimers cannot bind DNA. The Id-type proteins thus appear to negatively regulate DNA binding of bHLH proteins. Since Id1 inhibits DNA binding of E12 and Myo D, it apparently functions to inhibit muscle-specific gene expression. Under conditions that facilitate muscle cell differentiation, the Id protein levels fall, allowing E12 and/or E47 to form heterodimers with Myo D and myogenin, which in turn activate myogenic differentiation. It has been shown that expression of each of the Id proteins is strongly dependent on growth factor activation and that reduction of Id mRNA levels by |

## Product Details

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|                             | antisense oligonucleotides leads to a delayed reentry of arrested cells into the cell cycle following growth factor stimulation. |
| Cross-Reactivity (Details): | Human.                                                                                                                           |
| Purification:               | 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.                                                                          |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | ID1                                                                                                                                                                                                                                                                                                                                            |
| Alternative Name: | ID1 ( <a href="#">ID1 Products</a> )                                                                                                                                                                                                                                                                                                           |
| Background:       | BHLHb24, Class B basic helix-loop-helix protein 24, DNA binding protein inhibitor ID1, Dominant negative helix loop helix protein, Inhibitor of Differentiation 1, inhibitor of DNA binding 1, dominant negative helix-loop-helix protein, ID1 (Inhibitor of DNA-binding) (Transcription Factor)<br>Cellular localisation: Nucleus. Cytoplasm. |
| Molecular Weight: | 16.13kDa                                                                                                                                                                                                                                                                                                                                       |
| Gene ID:          | 3397, 504609                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">P41134</a>                                                                                                                                                                                                                                                                                                                         |

## Application Details

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| Application Notes: | Known_Application: ELISA (For coating, order antibody without BSA), Immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 mL of cell lysate)), Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Optimal dilution for a specific application should be determined.<br>Positive_Control: HeLa or HepG2 cells. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                      |

## Handling

|                  |                                                                                         |
|------------------|-----------------------------------------------------------------------------------------|
| Concentration:   | 1.0 mg/mL                                                                               |
| Buffer:          | Prepared in 10 mM PBS, WITHOUT BSA and Azide.                                           |
| Preservative:    | Azide free                                                                              |
| Storage:         | -20 °C, -80 °C                                                                          |
| Storage Comment: | Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non- |

Handling

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hazardous.

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Expiry Date: 24 months