



## Rabbit anti Id3 Polyclonal Antibody

Alternative Name(s): Inhibitor of DNA binding 3; HEIR-1; bHLHb25

### Order Information

- **Description:** Id3
- **Catalogue:** 602-380
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB, FC
- **Reactivity:** Hu

### ANTIGEN PREPARATION

A synthetic peptide of human ID3

### BACKGROUND

ID3, also designated DNA-binding protein inhibitor ID-3, is a helix-loop-helix (HLH) protein that can form heterodimers with other HLH proteins. 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 antisense oligonucleotides leads to a delayed reentry of arrested cells into the cell cycle following growth factor stimulation.

### PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

### FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### SPECIFICITY

This antibody recognizes human Id3 protein. The other species are not tested.

### STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### APPLICATIONS/SUGGESTED WORKING DILUTIONS\*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/10<sup>6</sup> cells
- Molecular Weight: 15-17
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### FOR RESEARCH USE ONLY.

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## DATA ATTACHMENTS



Western Blot: The whole lysate derived from HT29 (20 ug/lane) immunoblotted by Rabbit anti – Id3 (Cat# 602-380) at 1:500. Observed a major immunoreactive band at molecular weight ~15kDa.

## REFERENCES

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