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Datasheet for ABIN2780374  
**anti-ID4 antibody (N-Term)**

2 Images

1 Publication

### Overview

Quantity:	100 µL
Target:	ID4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Pig, Dog, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ID4 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ID4
Sequence:	MKAVSPVRPS GRKAPSGCGG GELALRCLAE HGHSLGGSAA AAAAAAARC
Predicted Reactivity:	Dog: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rat: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against ID4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

### Target Details

Target:	ID4
Alternative Name:	ID4 ( <a href="#">ID4 Products</a> )

## Target Details

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**Background:** Transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins (Pagliuca et al., 1995).[supplied by OMIM].

Alias Symbols: IDB4, bHLHb27

Protein Interaction Partner: TCF3, TCF4, ID3, MYOD1, HES1,

Protein Size: 161

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**Molecular Weight:** 17 kDa

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**Gene ID:** 3400

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**NCBI Accession:** [NM\\_001546](#), [NP\\_001537](#)

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**UniProt:** [P47928](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator.

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**Comment:** Antigen size: 161 AA

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** Lot specific

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**Buffer:** Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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**Preservative:** Sodium azide

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**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -20 °C

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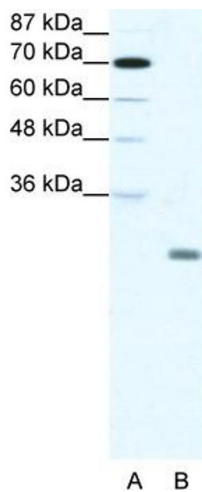
## Handling

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Publications

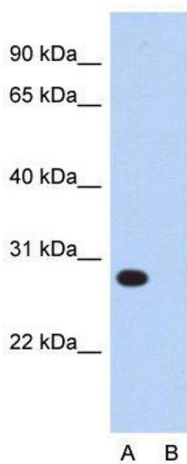
Product cited in: Libby, Bales, Orlicky, McManaman: "Perilipin-2 Deletion Impairs Hepatic Lipid Accumulation by Interfering with Sterol Regulatory Element-binding Protein (SREBP) Activation and Altering the Hepatic Lipidome." in: **The Journal of biological chemistry**, Vol. 291, Issue 46, pp. 24231-24246, (2016) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** WB Suggested Anti-ID4 Antibody Titration: 1.25ug/ml ELISA Titer: 1:1562500 Positive Control: HepG2 cell lysate



### Anti-ID4 Western Blot & Peptide Block Validation

Lot Number: QC7595  
Lysate: HepG2 Cell

Lane A: Primary Antibody  
Lane B: Primary Antibody + Blocking Peptide

Primary Antibody Concentration: 2.5µg/ml  
Peptide Concentration: 2.0µg/ml  
Lysate Quantity: 25µg/lane  
Gel Concentration: 12%

### Western Blotting

**Image 2.** Host: Rabbit Target Name: ID4 Sample Type: HepG2 Lane A: Primary Antibody Lane B: Primary Antibody + Blocking Peptide Primary Antibody Concentration: 2.5ug/mL Peptide Concentration: 2.0ug/mL Lysate Quantity: 25ug/lane Gel Concentration: 12%