

**IDH3A Antibody (C-Term)**  
Peptide-affinity purified goat antibody  
Catalog # AF3574a

## Specification

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### IDH3A Antibody (C-Term) - Product Information

Application	WB
Primary Accession	<a href="#">P50213</a>
Other Accession	<a href="#">NP_005521.1</a> , <a href="#">3419</a> , <a href="#">67834 (mouse)</a> , <a href="#">114096 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	39592

### IDH3A Antibody (C-Term) - Additional Information

Gene ID 3419

#### Other Names

Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial, 1.1.1.41, Isocitric dehydrogenase subunit alpha, NAD(+)-specific ICDH subunit alpha, IDH3A

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

IDH3A Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

### IDH3A Antibody (C-Term) - Protein Information

Name IDH3A ([HGNC:5384](#))

#### Function

Catalytic subunit of the enzyme which catalyzes the decarboxylation of isocitrate (ICT) into alpha-ketoglutarate. The heterodimer composed of the alpha (IDH3A) and beta (IDH3B) subunits and the heterodimer composed of the alpha (IDH3A) and gamma (IDH3G) subunits, have considerable basal activity but the full activity of the heterotetramer (containing two subunits of IDH3A, one of IDH3B and one of IDH3G) requires the assembly and cooperative function of both

heterodimers.

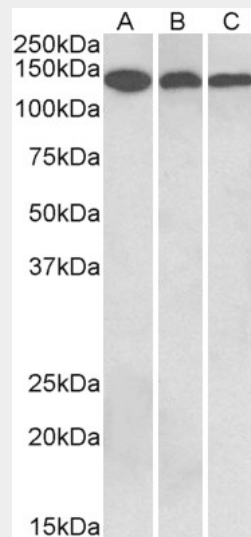
**Cellular Location**  
Mitochondrion.

### **IDH3A Antibody (C-Term) - Protocols**

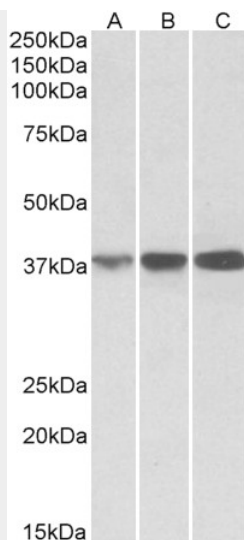
Provided below are standard protocols that you may find useful for product applications.

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

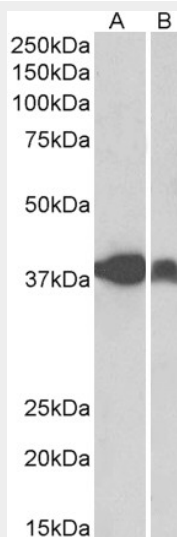
### **IDH3A Antibody (C-Term) - Images**



AF3574a (0.1  $\mu\text{g/ml}$ ) staining of Human Lymph Nodes lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3574a (0.1 µg/ml) staining of Human (A), Mouse (B) and Rat (C) Spleen lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3574a (0.3 µg/ml) staining of Pig Spleen (A) and Pig Skeletal Muscle (B) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**IDH3A Antibody (C-Term) - References**

Role of alpha-Asp181, beta-Asp192, and gamma-Asp190 in the distinctive subunits of human NAD-specific isocitrate dehydrogenase. Bzymek KP, Colman RF. *Biochemistry*. 2007 May 8;46(18):5391-7. PMID: 17432878