

**Goat Anti-APOA1BP Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1073a****Specification**

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**Goat Anti-APOA1BP Antibody - Product Information**

Application	<b>WB, Pep-ELISA</b>
Primary Accession	<a href="#">Q8NCW5</a>
Other Accession	<a href="#">NP_658985</a> , <a href="#">128240</a> , <a href="#">246703 (mouse)</a> , <a href="#">295229 (rat)</a>
Reactivity	<b>Human</b>
Predicted	<b>Mouse, Rat, Pig, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>100ug/200ul</b>
Isotype	<b>IgG</b>
Calculated MW	<b>31675</b>

**Goat Anti-APOA1BP Antibody - Additional Information****Gene ID** 128240**Other Names**

NAD(P)H-hydrate epimerase {ECO:0000255|HAMAP-Rule:MF\_03159}, 5.1.99.6, Apolipoprotein A-I-binding protein {ECO:0000255|HAMAP-Rule:MF\_03159}, AI-BP {ECO:0000255|HAMAP-Rule:MF\_03159}, NAD(P)HX epimerase {ECO:0000255|HAMAP-Rule:MF\_03159}, YjeF N-terminal domain-containing protein 1, YjeF\_N1, APOA1BP {ECO:0000255|HAMAP-Rule:MF\_03159}

**Dilution**

WB~~1:1000  
Pep-ELISA~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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**

Goat Anti-APOA1BP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-APOA1BP Antibody - Protein Information**

**Name** NAXE ([HGNC:18453](#))

#### Function

Catalyzes the epimerization of the S- and R-forms of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/27616477" target="\_blank">27616477</a>). This is a prerequisite for the S-specific NAD(P)H-hydrate dehydratase to allow the repair of both epimers of NAD(P)HX (By similarity). Accelerates cholesterol efflux from endothelial cells to high-density lipoprotein (HDL) and thereby regulates angiogenesis (PubMed:<a href="http://www.uniprot.org/citations/23719382" target="\_blank">23719382</a>).

#### Cellular Location

Mitochondrion {ECO:0000255|HAMAP-Rule:MF\_03159}. Secreted {ECO:0000255|HAMAP-Rule:MF\_03159, ECO:0000269|PubMed:11991719}. Note=In sperm, secretion gradually increases during capacitation. {ECO:0000255|HAMAP-Rule:MF\_03159}

#### Tissue Location

Ubiquitously expressed, with highest levels in kidney, heart and liver. Present in cerebrospinal fluid and urine but not in serum from healthy patients. Present in serum of sepsis patients (at protein level).

### Goat Anti-APOA1BP Antibody - Protocols

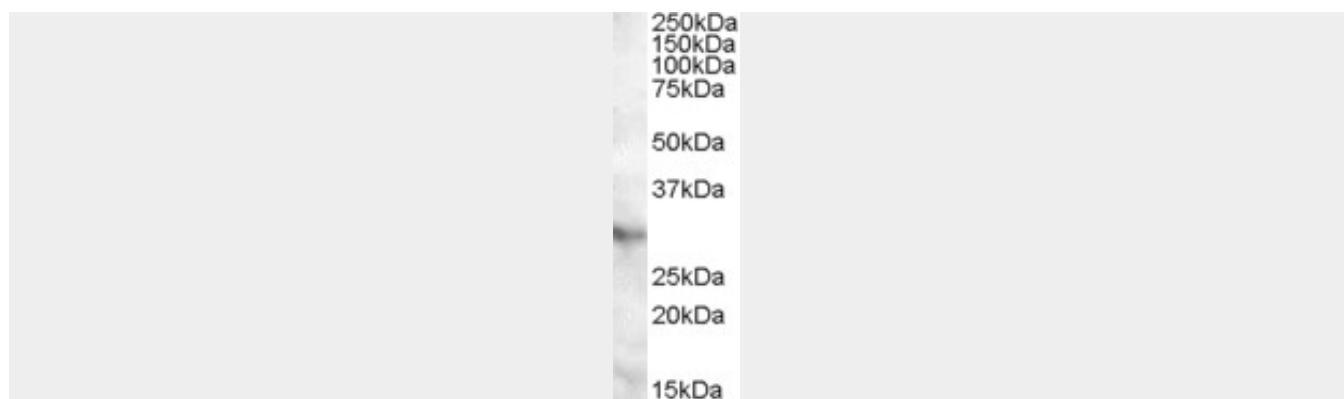
Provided below are standard protocols that you may find useful for product applications.

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

### Goat Anti-APOA1BP Antibody - Images



AF1073a (0.5 µg/ml) staining of Human Heart lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB08747 (0.5µg/ml) staining of Human Heart lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-APOA1BP Antibody - Background**

The product of this gene interacts with apolipoprotein A-I (apoA-I), the major apolipoprotein of high-density lipoproteins (HDLs). It is secreted into some bodily fluids, and its synthesis and secretion are stimulated in vitro by incubating cells with apoA-I. The human genome contains related pseudogenes.

#### **Goat Anti-APOA1BP Antibody - References**

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.

ApoA-I-binding protein (AI-BP) and its homologues hYjeF\_N2 and hYjeF\_N3 comprise the YjeF\_N domain protein family in humans with a role in spermiogenesis and oogenesis. Rudolph C, et al. Horm Metab Res, 2007 May. PMID 17533573.

Adiponectin accelerates reverse cholesterol transport by increasing high density lipoprotein assembly in the liver. Matsuura F, et al. Biochem Biophys Res Commun, 2007 Jul 13. PMID 17521614.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

Cloning and characterization of a novel apolipoprotein A-I binding protein, AI-BP, secreted by cells of the kidney proximal tubules in response to HDL or ApoA-I. Ritter M, et al. Genomics, 2002 May. PMID 11991719.