

AIBP Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50837**Specification**

AIBP Antibody - Product Information

Application	WB, IF
Primary Accession	Q8NCW5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32,20 KDa
Antigen Region	133-161

AIBP Antibody - Additional Information**Gene ID** 128240**Other Names**

NAD(P)H-hydrate epimerase {ECO:0000255|HAMAP-Rule:MF_03159}, 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

IF~~1:100

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

AIBP 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:27616477). 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:23719382).

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}

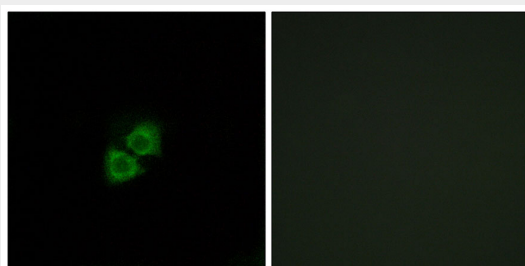
Tissue Location

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).

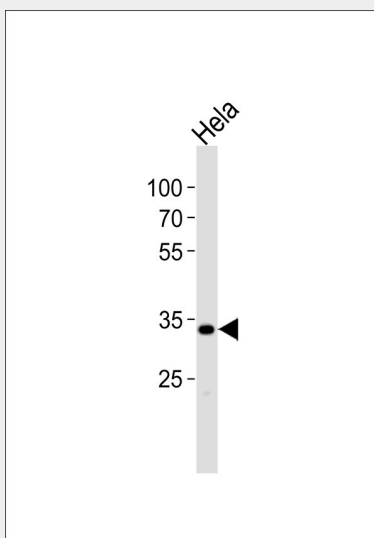
AIBP Antibody - Protocols

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](#)

AIBP Antibody - Images

Immunofluorescence analysis of A549 cells, using AIBP antibody.



Western blot analysis of lysate from HeLa cell line, using AIBP Antibody, was diluted at 1:1000. A

goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

AIBP Antibody - Background

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. 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).

AIBP Antibody - References

Ritter M., et al. Genomics 79:693-702(2002).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Gregory S.G., et al. Nature 441:315-321(2006).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).