10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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℃

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}

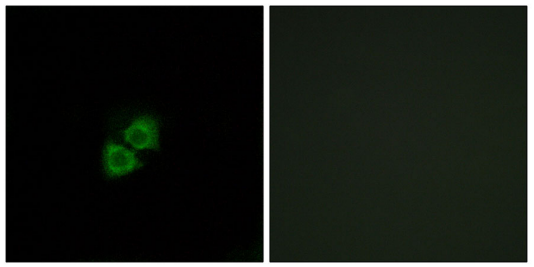
Tissue Location
Ubiquitously expressed, with highest levels in kidney, heart and liver. Present in cerebrospinal fluid and urine but not in serum from healthy patients. Present in serum of sepsis patients (at protein level).

AIBP Antibody - Protocols

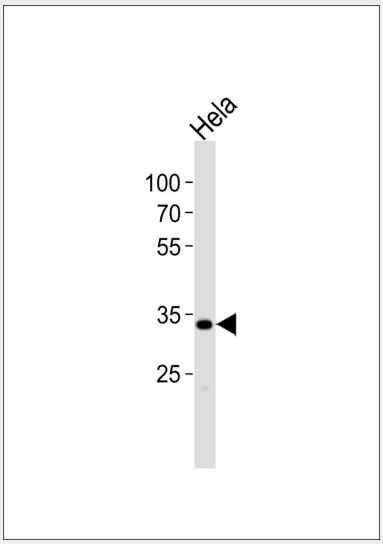
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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).