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AIBP Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50837

Product Information

Application	WB, IF
Primary Accession	Q8NCW5
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	31675

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℃

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).

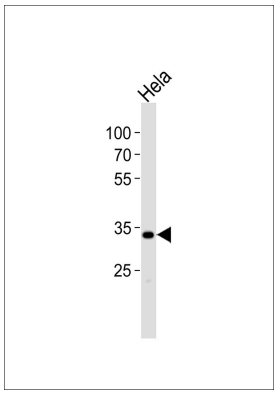
Background

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).

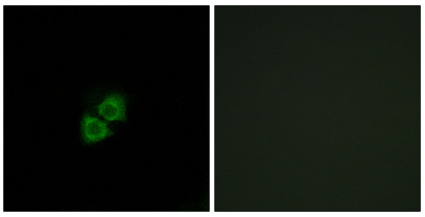
References

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).

Images



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.



Immunofluorescence analysis of A549 cells, using AIBP antibody.