



# HEM1 rabbit pAb

<b>Catalog No</b>	BYab-08412
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	ALAS1 ALAS3 ALASH OK/SW-cl.121
<b>Protein Name</b>	HEM1
<b>Immunogen</b>	Synthesized peptide derived from human HEM1 AA range: 87-137
<b>Specificity</b>	This antibody detects endogenous levels of HEM1 at Human/Mouse/Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	WB 1: 500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Mitochondrion inner membrane ; Peripheral membrane protein . Localizes to the matrix side of the mitochondrion inner membrane. .
<b>Tissue Specificity</b>	
<b>Function</b>	catalytic activity:Succinyl-CoA + glycine = 5-aminolevulinate + CoA + CO(2).,cofactor:Pyridoxal phosphate.,miscellaneous:There are two delta-ALA synthetase in vertebrates: an erythroid- specific form and one (housekeeping) which is expressed in all tissues.,pathway:Porphyrin metabolism; protoporphyrin-IX biosynthesis; 5-aminolevulinate from glycine: step 1/1.,similarity:Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.,subunit:Homodimer.,
<b>Background</b>	This gene encodes the mitochondrial enzyme which is catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded

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protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015],

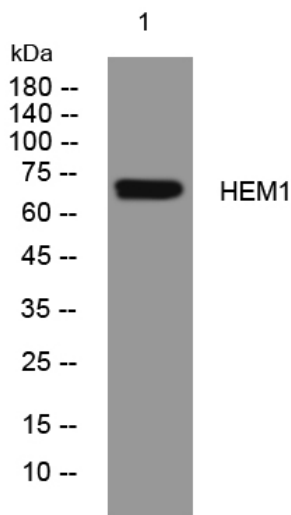
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



Western blot analysis of lysates from U2OS cells, primary antibody was diluted at 1:1000, 4° over night