

Product Name: KD-Validated Hydroxymethylbilane Synthase Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01564

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 39.3kDa

Antigen Information

Gene Name	HMBS HMBS; Hydroxymethylbilane Synthase; Porphobilinogen Deaminase; PBGD; UPS; Porphyrin,
Alternative Names	Acute; Chester Type; Pre-Uroporphyrinogen Synthase; Uroporphyrinogen I Synthase; EC 2.5.1.61; PBG-D; PORC; Uroporphyrinogen I Synthetase
Gene ID	3145.0
SwissProt ID	P08397
Immunogen	A synthesized peptide derived from human HMBS

Background

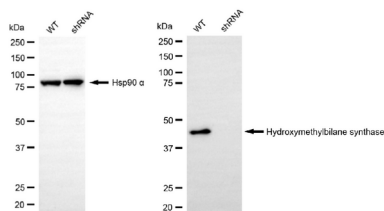
This gene encodes a member of the hydroxymethylbilane synthase superfamily. The encoded protein is the third enzyme of the

heme biosynthetic pathway and catalyzes the head to tail condensation of four porphobilinogen molecules into the linear hydroxymethylbilane. Mutations in this gene are associated with the autosomal dominant disease acute intermittent porphyria. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

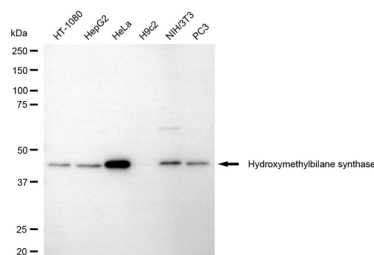
Research Area

Signal Transduction, Cell Biology, Metabolism

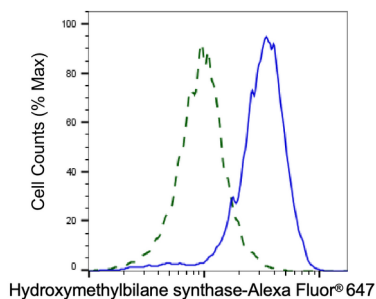
Image Data



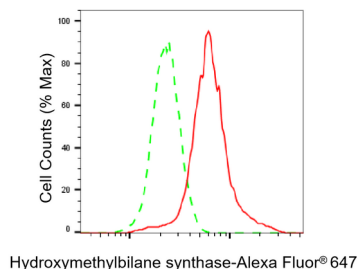
Western blotting analysis using hydroxymethylbilane synthase antibody (KVA01564). Hydroxymethylbilane synthase expression in wild-type (WT) and hydroxymethylbilane synthase (HMBS) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with hydroxymethylbilane synthase antibody (KVA01564, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using hydroxymethylbilane synthase antibody (KVA01564). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with hydroxymethylbilane synthase antibody (KVA01564, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Hydroxymethylbilane synthase knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Hydroxymethylbilane synthase antibody (KVA01564, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Hydroxymethylbilane synthase expression in HeLa cells using Hydroxymethylbilane synthase antibody (KVA01564, 1:2,000). Green, isotype control; red, Hydroxymethylbilane synthase.