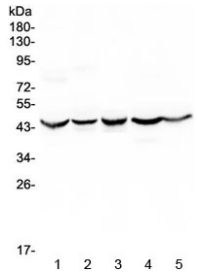
HMBS Antibody / Hydroxymethylbilane synthase (RQ4407)

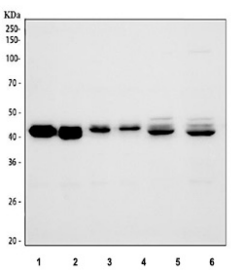
Catalog No.	Formulation	Size
RQ4407	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P08397
Applications	Western Blot : 0.5-1ug/ml Direct ELISA : 0.1-0.5ug/ml (recombinant human protein) (BSA-free format available)
Limitations	This HMBS antibody is available for research use only.



Western blot testing of human 1) HeLa, 2) placenta, 3) HepG2, 4) 22RV1 and 5) U-2 OS cell lysate with HMBS antibody at 0.5ug/ml. Predicted molecular weight: ~39 kDa.



Western blot testing of 1) human HEL, 2) human K562, 3) human MCF7, 4) human Caco-2, 5) rat spleen and 6) mouse spleen tissue lysate with HMBS antibody at 0.5ug/ml. Predicted molecular weight: ~39 kDa.

Description

HMBS (Porphobilinogen deaminase) is a key enzyme in the heme biosynthesis pathway, catalyzing the conversion of porphobilinogen into hydroxymethylbilane. Deficiency of HMBS activity is associated with metabolic disorders such as acute intermittent porphyria, making this protein highly relevant in both clinical and biochemical research. A HMBS antibody is widely used to examine its expression and function in heme metabolism studies.

The HMBS protein plays an essential role in maintaining cellular heme levels, which are critical for oxygen transport, electron transfer, and enzymatic processes. Monitoring HMBS activity helps in understanding disorders caused by impaired heme biosynthesis. A HMBS antibody provides researchers with a dependable tool to detect protein distribution and assess regulation under different metabolic states.

NSJ Bioreagents offers a high-quality HMBS antibody designed to support investigations into metabolic pathways, enzymatic function, and disease mechanisms related to heme biosynthesis.

Application Notes

Optimal dilution of the HMBS antibody should be determined by the researcher.

Immunogen

A human partial recombinant protein corresponding to amino acids N6-H361 was used as the immunogen for the HMBS antibody.

Storage

After reconstitution, the HMBS antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.