

Goat Anti-HMBS Antibody (internal region)

Purified Goat Polyclonal Antibody Catalog # AF4265a

Specification

Goat Anti-HMBS Antibody (internal region) - Product Information

Application Primary Accession Other Accession

Reactivity Predicted Host Clonality Concentration Calculated MW WB P08397 NP_000181.2, NP_001019553.1, NP_001245137.1, NP_001245138.1 Human Human Goat Polyclonal 0.5 39330

Goat Anti-HMBS Antibody (internal region) - Additional Information

Gene ID 3145

Other Names

HMBS; hydroxymethylbilane synthase; PBG-D; PBGD; PORC; UPS; porphobilinogen deaminase; porphyria, acute; Chester type; pre-uroporphyrinogen synthase; uroporphyrinogen I synthase; uroporphyrinogen I synthetase

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen

Peptide with sequence C-HLEFRSIRGNLNTR, from the internal region of the protein sequence according to NP_000181.2; NP_001019553.1; NP_001245137.1; NP_001245138.1.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-HMBS Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-HMBS Antibody (internal region) - Protein Information

Name HMBS

Synonyms PBGD, UPS



Function

As part of the heme biosynthetic pathway, catalyzes the sequential polymerization of four molecules of porphobilinogen to form hydroxymethylbilane, also known as preuroporphyrinogen (PubMed:18936296, PubMed:19138865, PubMed:23815679, PubMed:23815679, PubMed:18004775). Catalysis begins with the assembly of the dipyrromethane cofactor by the apoenzyme from two molecules of porphobilinogen or from preuroporphyrinogen. The covalently linked cofactor acts as a primer, around which the tetrapyrrole product is assembled. In the last step of catalysis, the product, preuroporphyrinogen, is released, leaving the cofactor bound to the holodeaminase intact (PubMed:18936296.

Cellular Location Cytoplasm.

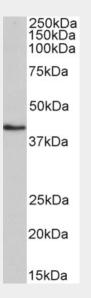
Tissue Location [Isoform 1]: Is ubiquitously expressed.

Goat Anti-HMBS Antibody (internal region) - Protocols

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

- Western Blot
- <u>Blocking Peptides</u>
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-HMBS Antibody (internal region) - Images



AF4265a (0.1 μ g/ml) staining of K562 lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-HMBS Antibody (internal region) - References



Seven novel genetic mutations within the 5'UTR and the housekeeping promoter of HMBS gene responsible for the non-erythroid form of acute intermittent porphyria. Brancaleoni V, Granata F, Colancecco A, Tavazzi D, Cappellini MD, Di Pierro E. Blood cells, molecules & diseases 49 (3-4): 147-51.