

Goat Anti-HMBS Antibody (internal region)
Purified Goat Polyclonal Antibody
Catalog # AF4265a**Specification**

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

Application	WB
Primary Accession	P08397
Other Accession	NP_000181.2 , NP_001019553.1 , NP_001245137.1 , NP_001245138.1
Reactivity	Human
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	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: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](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-HMBS Antibody (internal region) - Images

AF4265a (0.1 µg/ml) staining of K562 lysate (35 µg 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.