Anti-Hemin [1D3] Bulk Size Ab00982-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgM format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa
Clone Number: 1D3
Alternative Name(s) of Target: Panhematin; Hematin
UniProt Accession Number of Target Protein:
Published Application(s): ELISA, IF, IHC
Published Species Reactivity: Human
Immunogen: This antibody was raised against a hemin-human immunoglobulin in BALB/c mice.
Specificity: The antibody is specific to metal-substituted protoporphyrin. CDRH2 plays an essential role in recognition. The antibody has the highest affinity for PP[Fe]-PEG and a five-times lower affinity for PP[Pd]-PEG, PP[Zn]-PEG, and PP[Ga]-PEG.
Application Notes: The affinity of this antibody for hemin has been characterized by ELISA (Uda et al., 1993). The affinity constant of the antibody and individual CDR segments has been examined with fluorescence measurement of protoporphyrin-PEG binding (Hifumi et al., 1999). The mouse IgM version of this antibody (Ab00982-21.0) was used as a primary antibody for immunocytochemistry (IHC) in myelinating cultures after treatment with hemin/$FeCl_3$ (Baldacchino et al., 2022; PMID: 35569511).
Antibody First Published in: Uda et al. Production and immunological characterization for anti hemin monoclonal antibody Chem Lett. 1993;22(11):1923-1926. doi: 10.1246/cl.1993.1923. PMID:
Note on publication: The original publication describes the generation of a monoclonal antibody for hemin and the characterization of its protoporphyrin binding.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4^{o}C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20^{o}C.
Concentration:

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1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.

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