

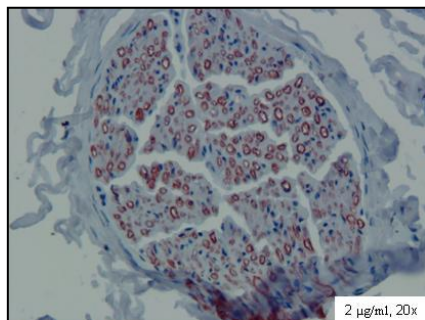
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Peripheral myelin protein 22, Human, clone CF1		
Catalog number	HM2219-100UG		
Lot number	xxxxxXxxxx-X	Expiry date	MMM YYYY
Volume	1 ml	Amount	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN ₃	Concentration	100 µg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes		•				•		•
No								
N.D.	•		•	•	•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot



IHC-P: Paraffin embedded formalin fixed human nerve sections. HM2219 was used in a concentration of 2 µg/ml.

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IHC-P: Endogenous peroxidase was blocked with hydrogen peroxide in methanol. Heat antigen retrieval was performed in Tris-EDTA pH6.5. Blocking was done in 10% normal goat serum in TBS. Primary antibody incubations were done in 1% BSA in TBS, 1 hour room temperature.

General Information

Description	The monoclonal antibody CF1 recognizes human peripheral myelin protein 22 (PMP22). PMP22 is a 160 amino acid glycoprotein and contains four hydrophobic domains, presumably transmembrane regions. It is the second most abundant protein in the mammalian nervous system, but is, at least in rodents, also found in other tissues, including the liver and gut. Myelin protein zero (P0) is the most abundant protein in mammalian peripheral nerve myelin. An interaction between P0 and PMP22 has been detected in compact myelin. Defects in PMP22 have been related to Charcot-Marie-Tooth disease (CMT) and inflammatory demyelinating neuropathy (IDP). Immunization with PMP22 induces experimental auto-immune neuritis without central nervous inflammation. Therefore, PMP22 is considered as candidate auto-antigen in inflammatory diseases of the peripheral nervous system, including both acute and chronic inflammatory demyelinating polyradiculoneuropathy. Monoclonal antibody CF1 is crossreactive with Rhesus monkey PMP22.
Immunogen	Peptide corresponding to amino acids 121-133 in the second extracellular domain of human PMP2 with an extra N-terminal cysteine residue (CRHPEWHLNSDYSYG).
Aliases	PMP22, Growth arrest-specific protein 3, Gas-3.

References	1. Gregson, N et al; Characterization of a monoclonal antibody specific for human peripheral myelin protein 22 and its use in immunohistochemical studies of the fetal and adult nervous system. J Peripher Nerv Syst 2007, 12: 2
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
27/02/2025

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.