

**MONOCLONAL ANTIBODY TO
HUMAN PERIPHERAL MYELIN PROTEIN 22 (PMP22)
clone CF1**



Catalog nr	HM2219 (lot number and expiry date are indicated on the label)
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.
Aliases	Growth arrest-specific protein 3, Gas-3
Immunogen	Peptide corresponding to amino acids 121-133 in the second extracellular domain of human PMP2 with an extra N-terminal cysteine residue (CRHPEWHLNSDYSYG)
Species	Mouse IgG ₁
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.
Application	The monoclonal antibody CF1 can be used for immuno assays and Western blotting. Furthermore, the monoclonal antibody CF1 is useful for immunohistology on paraffin embedded sections.
Use	For Western blotting, 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.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for 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 with the use or derivation of this product.
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
Also available	HP9053 Polyclonal antibody against Human APP