

Product datasheet for **AM26255FC-N**

RP105 (CD180) Mouse Monoclonal Antibody [Clone ID: MHR73]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MHR73
Applications:	FN, IHC, IP
Recommended Dilution:	Flow cytometry: The typical starting working dilution is 1:50. Immunohistochemistry on frozen sections: The typical starting working dilution is 1:50. Immunoprecipitation. Functional assays.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	The monoclonal antibody MHR73 reacts with human RP105 (CD180)
Formulation:	PBS Label: FITC State: Liquid 0.2 µm filtered Ig fraction Stabilizer: 1% bovine serum albumin Preservative: 0.02% sodium azide
Concentration:	lot specific
Conjugation:	FITC
Storage:	Store at 2 - 8 °C.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD180 molecule
Database Link:	Entrez Gene 4064 Human Q99467



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Background:

RP105 is a type 1 transmembrane protein of 105 kDa with extracellular leucine-rich repeats (LLRs) and a short cytoplasmic tail. RP105, assigned as CD180, is similar to Drosophila Toll in the extracellular LLRs. RP105 expression is largely restricted to immune cells including CD19+ B cells and macrophages. Histological studies showed that RP105 is expressed mainly on mature B cells in mantle zones. Antibody-mediated (MHR73) cross-linking of RP105 induces resistance against irradiation-induced apoptosis, B-cell proliferation, and up-regulation of a costimulatory molecule CD80, revealing RP105 as a potent regulator of B-cell activation. In this context it is important to note that RP105 is associated with MD1, and that it mediates B-cell surface expression and LPS recognition and signalling in cooperation with TLR4. MD-1 seems to be requisite for efficient expression of RP105.

Synonyms:

LY64