

For Research Use Only

MFI2 Recombinant monoclonal antibody, PBS Only (Capture)

Catalog Number: 88127-2-PBS



Basic Information

Catalog Number: 88127-2-PBS	GenBank Accession Number: NM_005929.6	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 4241	CloneNo.: 260392B10
Source: Rabbit	UNIPROT ID: P08582-1	
Isotype: IgG	Full Name: antigen p97 (melanoma associated) identified by monoclonal antibodies 133.2 and 96.5	
Immunogen Catalog Number: EG9197	Calculated MW: 80 kDa	
	Observed MW: 82 kDa	

Applications

Tested Applications:
WB, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Product Information

88127-2-PBS targets MFI2 as part of a matched antibody pair.

MP03370-1: 88127-2-PBS capture and 88127-3-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

MFI2 (Melanotransferrin/Mtf/TRMF), also known as p97 or CD228, is an iron-binding glycoprotein belonging to the transferrin family. Alternative RNA splicing yields two forms of different length transcripts, one (the longer) bound to the membrane (mMFI2) and the other (the shorter) secreted to the peripheral environment (sMFI2) such as blood and cell supernatant. MFI2 is upregulated in tumor tissues and has been identified as a serological marker of colorectal cancer (PMID: 25216327).

Storage

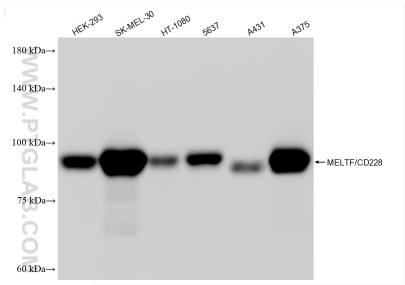
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

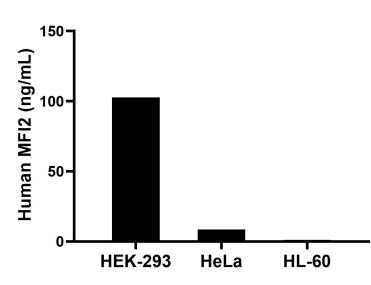
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

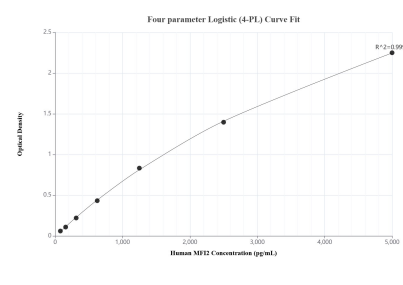
Selected Validation Data



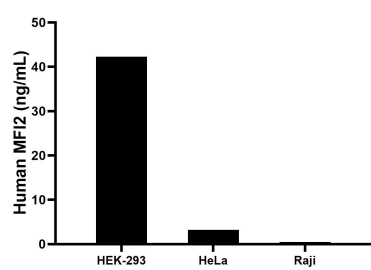
Various lysates were subjected to SDS PAGE followed by western blot with 88127-2-RR (MELTF/CD228 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88127-2-PBS in a different storage buffer formulation.



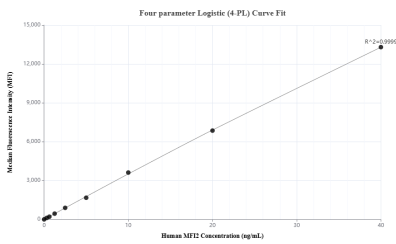
The mean MFI2 concentration was determined to be 102.73 ng/mL in HEK-293 cell extract based on a 1.50 mg/mL extract load, 8.59 ng/mL in HeLa cell extract based on a 1.20 mg/mL extract load and 1.26 ng/mL in HL-60 cell extract based on a 1.20 mg/mL extract load.



Sandwich ELISA standard curve of MP03370-1, Human MFI2 Recombinant Matched Antibody Pair - PBS only. 88127-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg9197. 88127-3-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



The mean MFI2 concentration was determined to be 42.3 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load, 3.2 ng/mL in HeLa cell extract based on a 1.2 mg/mL extract load, 0.5 ng/mL in Raji cell extract based on a 1.5 mg/mL extract load.



Cytometric bead array standard curve of MP03370-1, MFI2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88127-2-PBS. Detection antibody: 88127-3-PBS. Standard: Eg9197. Range: 0.312-40 ng/mL.