


PRODUCT INFORMATION SHEET

Mouse Monoclonal Antibody to CD148

Format: PURE RUO REF IQP-1847P Quantity: 0.1mg

 Description	
Clone	1D2C11
Isotype	Mouse IgG2b
Specificity	CD148
Alternative names	PTPRJ; DEP1; SCC1; HPTPeta; R-PTP-ETA
Species	Human
Immunogen	Purified recombinant fragment of human CD148 (AA: extra 36-210) expressed in E. Coli.
Mw	146kDa
Format	Purified antibody in PBS with 0.05% sodium azide

Summary The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes, including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene.

Applications ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400; ICC: N/A; IHC: N/A

Limitations

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.



Handling and Storage

Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.












Warning

All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

- 1.Oncogene. 2015 Oct 29;34(44):5536-47.
- 2.J Neurooncol. 2015 May;122(3):451-9.

Explanation of used symbols

-  Consult instructions for use
-  Catalogue number
-  Sufficient for
-  Caution, consult accompanying document
-  Keep away from (sun)light
-  Biological risks
-  Temperature limitation (°C)
-  For Research Use Only
-  Batch code
-  Use by yyyy-mm-dd
-  Manufacturer

		Label - tandem	Ex -max (nm)	Em -max (nm)
P	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
C	CyQ	PE-Cy5.18	488, 532	667
A	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



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