

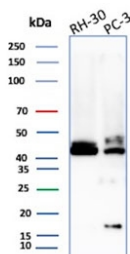
## CD83 Antibody [clone r1H4b] (V5820)

Catalog No.	Formulation	Size
V5820-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5820-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5820SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

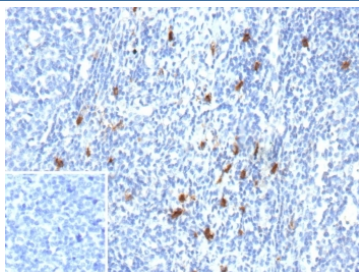
Recombinant **MOUSE MONOCLONAL**

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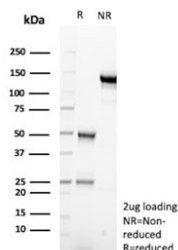
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	r1H4b
Purity	Protein G affinity
UniProt	Q01151
Localization	Cytoplasm, Membrane
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This CD83 antibody is available for research use only.



Western blot testing of human RH30 and PC-3 cell lysate with CD83 antibody. Expected molecular weight: ~23-60 kDa depending on level of glycosylation.



IHC staining of FFPE human tonsil tissue with CD83 antibody (clone 1H4b). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free CD83 antibody (clone r1H4b) as confirmation of integrity and purity.

## Description

CD83 is a heavily glycosylated membrane protein of the immunoglobulin (Ig) superfamily that is expressed in mature Dendritic cells, Langerhans cells and interdigitating reticulum cells within lymphoid tissues. Structurally, CD83 resembles other Ig superfamily members, which have an extracellular V-type Ig-like domain, a single transmembrane domain and a 40 residue cytoplasmic tail. CD83 expression is used as a marker for mature, antigen presenting Dendritic cells that are capable of generating tumor-specific T cell immunity, a phenotype with implications as an anti-cancer vaccine. CD83-IgG1(Fc) chimera studies indicate that CD83 is a sialic acid-binding, Ig-like Lectin (Siglec) adhesion molecule that is involved in cell adhesion/signaling by hosting Dendritic cell interactions with monocytes and CD8+ T cells.

## Application Notes

Optimal dilution of the CD83 antibody should be determined by the researcher.

## Immunogen

Prokaryotic recombinant protein corresponding to 124 amino acids of the external N-terminus of the CD83 molecule was used as the immunogen for the CD83 antibody.

## Storage

Aliquot the CD83 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.