B7-H4 (Immuno-Inhibitory Protein) Antibody

Mouse Monoclonal Antibody [Clone B7H4/1788]

Catalog No	Format	Size
79679-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
79679-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
79679-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

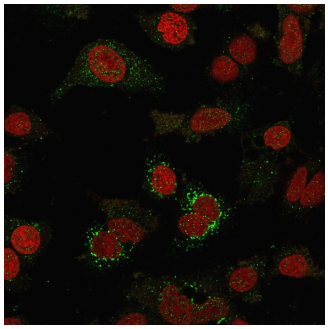
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

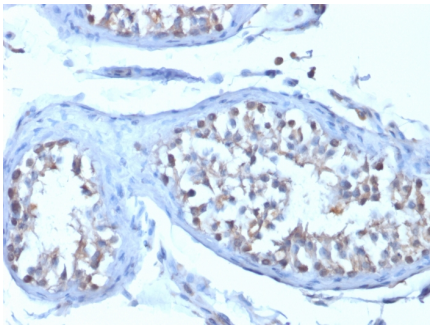
Clone	B7H4/1788
Gene Name	VTCN1
Immunogen	A recombinant fragment of human B7-H4 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	35kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	HeLa, Pancreas, placenta or spleen., SKBr-3 or MCF-7 cells. Human ovary

**Optimal dilution for a specific application should be determined.*

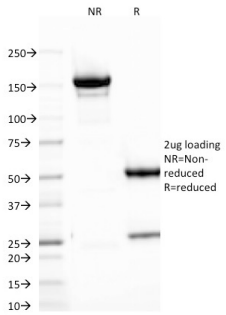
Product Images for B7-H4 (Immuno-Inhibitory Protein) Antibody



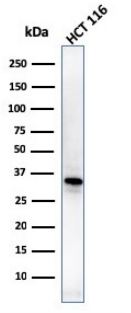
Immunofluorescence staining of SKBR-3 cells usingB7-H4 Mouse Monoclonal Antibody (B7H4/1788); followed by goat anti-mouse IgG-CF488 (green). Nuclear counterstain is Reddot.



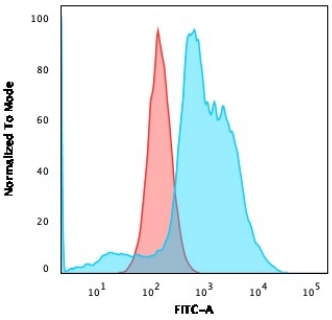
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained withB7-H4 Mouse Monoclonal Antibody (B7H4/1788).



SDS-PAGE Analysis Purified B7-H4 Mouse Monoclonal Antibody (B7H4/1788). Confirmation of Purity and Integrity of Antibody.



Western Blot of HCT116 cell lysates using B7-H4 Mouse Monoclonal Antibody (B7H4/1788).



Flow Cytometric Analysis of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Specificity & Comments

T cell activation and immune function are regulated by the innate immune system through positive and negative costimulatory proteins. One such protein, B7-H4 (B7-homolog 4), belongs to the B7 immunoglobulin superfamily of ligand-lymphocyte interacting proteins. Expressed primarily on the membrane of lymphoid cells, B7-H4 is an immuno-inhibitory protein that interacts with receptors on the surface of T lymphocytes, thus mediating cellular and humoral immune responses. Overexpression of the B7-H4 protein is associated with certain malignancies, including ovarian and breast cancer, as its interaction with T cells suppresses tumor-associated immunity. Current research suggests that, similar to Mucin 16 (CA-125), B7-H4 may be a useful biomarker for the early detection of ovarian cancer.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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