

## 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 |

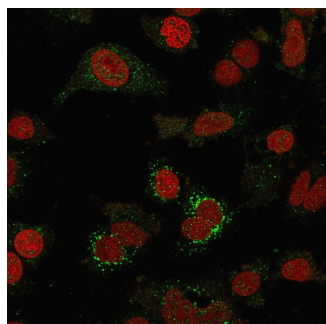
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunofluorescence (IF)    | 1-3ug/ml            |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining 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

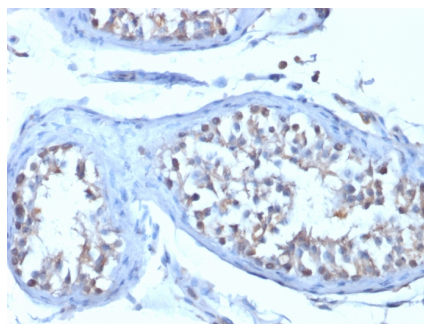
|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | B7H4/1788   |
| <b>Gene Name</b>              | VTCN1   |
| <b>Immunogen</b>              | A recombinant fragment of human B7-H4 protein (exact sequence is proprietary) |
| <b>Host</b>     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

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

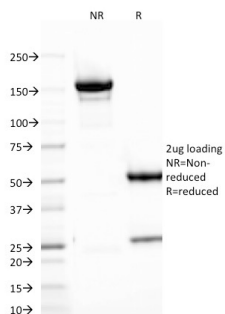
### Product Images for B7-H4 (Immuno-Inhibitory Protein) Antibody



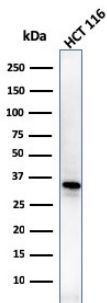
Immunofluorescence staining of SKBR-3 cells using B7-H4 Mouse Monoclonal Antibody (B7H4/1788); followed by goat anti-mouse IgG-CF488 (green). Nuclear counterstain is Reddot.



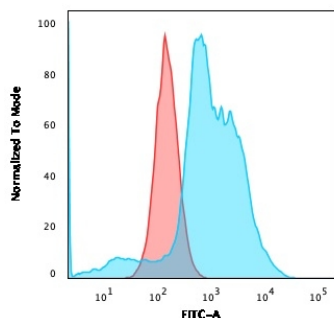
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with B7-H4 Mouse Monoclonal Antibody (B7H4/1788).



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.

### 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.

### 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.