

36-3400: Anti-B7-H4 (Immuno-Inhibitory Protein) Monoclonal Antibody(Clone: B7H4/2652R)

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| Clonality : | Monoclonal |
| Clone Name : | B7H4/2652R |
| Application : | ELISA,FACS,IF,IHC |
| Reactivity : | Human |
| Gene : | VTCN1 |
| Gene ID : | 79679 |
| Uniprot ID : | Q7Z7D3 |
| Alternative Name : | B7 family member, H4; B7 homolog 4; B7 superfamily member 1; B7-H4; B7S1; Immune costimulatory protein B7-H4; T-cell costimulatory molecule B7x; V-set domain-containing T-cell activation inhibitor 1; VCTN1 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | A recombinant fragment of human B7-H4 protein (exact sequence is proprietary) |

Description

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.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/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 condition : | 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. |

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Flow Cytometry (1-2ug/million cells in 0.1ml); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

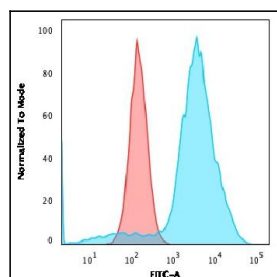


Fig. 1: Flow Cytometric Analysis of SKBR-3 cells using B7-H4 Rabbit Recombinant Monoclonal Antibody (B7H4/2652R) followed by goat anti-rabbit IgG-CF488 (Blue); Isotype Control (Red).

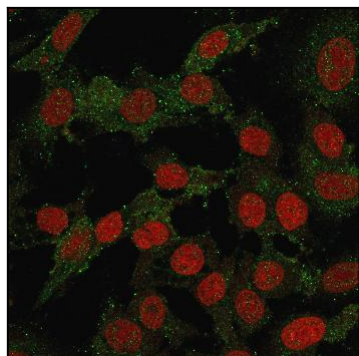


Fig. 2: Immunofluorescence staining of SKBR-3 cells using B7-H4 Rabbit Recombinant Monoclonal Antibody (B7H4/2652R) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).

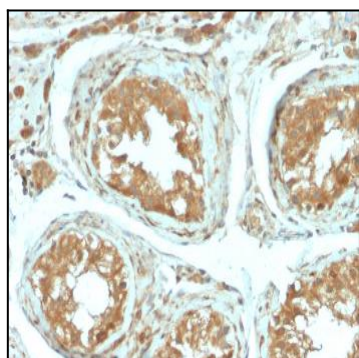


Fig. 3: Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with B7-H4 Rabbit Recombinant Monoclonal Antibody (B7H4/2652R).

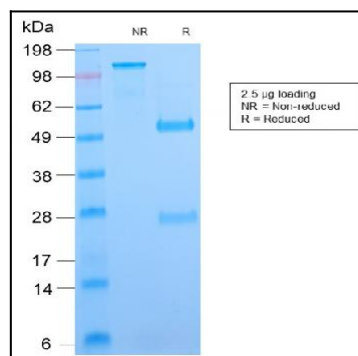


Fig. 4: SDS-PAGE Analysis Purified B7-H4 Rabbit Recombinant Monoclonal Antibody (B7H4/2652R). Confirmation of Integrity and Purity of Antibody.