

Anti-B7-H4(VTCN1) Antibody

ER1802-56



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|----------------------------|---|
| Product Type: | Rabbit polyclonal IgG, primary antibodies |
| Species reactivity: | Human, Rat |
| Applications: | WB, IF-Cell, IHC-P, FC |
| Molecular Wt: | Predicted band size: 31 kDa |

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, also designated VTCN1), belongs to the B7 Immunoglobulin superfamily of ligand-lymphocyte interacting proteins. Expressed primarily on the membrane of lymphoid cells, B7-H4 is an immunoinhibitory 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 (CA125), B7-H4 may be a useful biomarker for the early detection of ovarian cancer.

Immunogen: Recombinant protein within human B7-H4 aa 25-259.

Positive control: SKBR3 cell and human colon tissue lysates, MCF-7, rat epididymid tissue, human breast tissue, human breast tissue, human kidney tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: Q7Z7D3 Human | Q501W4 Rat

Recommended Dilutions:

| | |
|----------------|--------------|
| WB | 1:500-1:2000 |
| IF-Cell | 1:1,000 |
| IHC-P | 1:50-1:200 |
| FC | 1:50-1:100 |

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Images

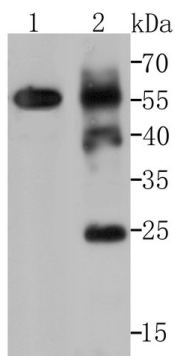


Fig1: Western blot analysis of B7-H4(VTCN1) on SKBR3 cell and human colon tissue lysates using anti-B7-H4(VTCN1) antibody at 1/500 dilution.

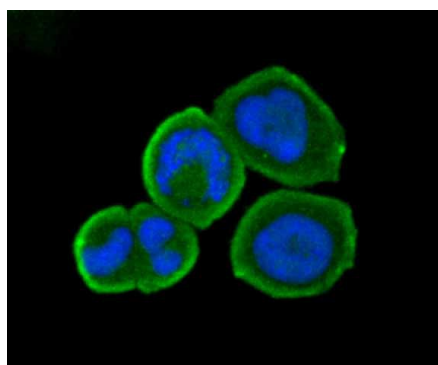


Fig2: ICC staining B7-H4(VTCN1) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

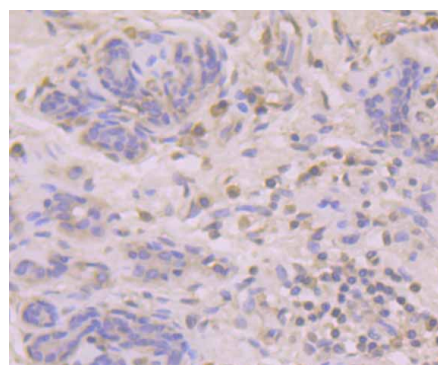


Fig3: Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-B7-H4(VTCN1) antibody. Counter stained with hematoxylin.

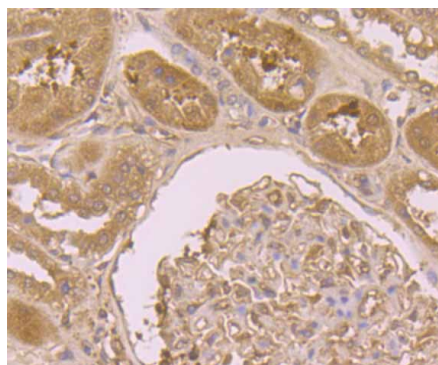


Fig4: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-B7-H4(VTCN1) antibody. Counter stained with hematoxylin.

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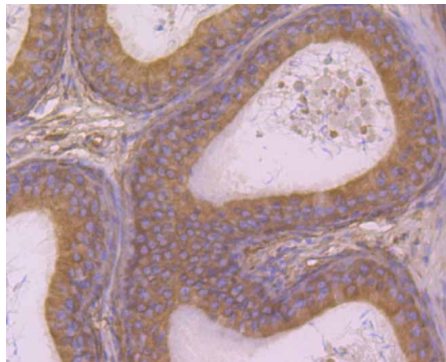


Fig5: Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-B7-H4(VTCN1) antibody. Counter stained with hematoxylin.

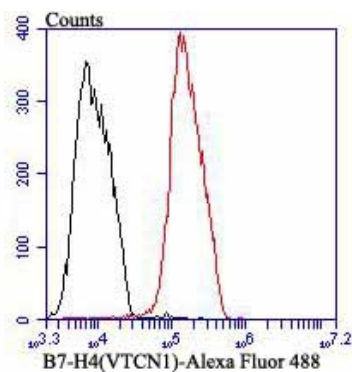


Fig6: Flow cytometric analysis of MCF-7 cells with B7-H4(VTCN1) antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Salceda S et al. The immunomodulatory protein B7-H4 is overexpressed in breast and ovarian cancers and promotes epithelial cell transformation. *Exp Cell Res* 306:128-141 (2005).
2. Kryczek I et al. B7-H4 expression identifies a novel suppressive macrophage population in human ovarian carcinoma. *J Exp Med* 203:871-881 (2006).

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