Mouse anti B7H4 Monoclonal Antibody

Alternative Name(s): VTCN1, B7X; B7H4; B7S1; B7-H4; B7h.5; VCTN1; PRO1291

Order Information

- **Description:** B7H4(VTCN1)
- **Catalogue:** 604-720
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ZY346
- **Application:** IHC(P), FC
- **Reactivity:** Hu

ANTIGEN PREPARATION

A recombinant protein of human B7H4

BACKGROUND

The B7H4 protein belongings to the B7 costimulatory protein family. Proteins in this family are present on the surface of antigen-presenting cells and interact with ligand bound to receptors on the surface of T cells. B7s costimulate growth, prevent anergy, and promote survival of T cells via CD28 receptor. Binding of B7s to CTLA-4, however, inhibits T cell responses by delivering a putative negative signal. B7H4 negatively regulates T cell immunity. Studies have shown that high levels of the encoded protein has been correlated with tumor progression. A pseudogene of this gene is located on chromosome 20. Multiple transcript variants encoding different isoforms have been found for this gene

PURIFICATION

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes human B7H4(VTCN1) protein. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at –20oC to –70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

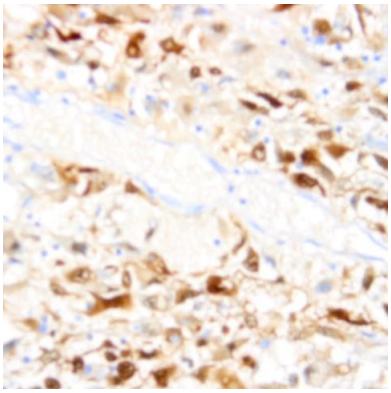
APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: 0.5-5 µg/106 cells
- Molecular Weight: 47-55
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

AbboMax, Inc 2528 Qume Drive, Suite 8, San Jose, California 95131, USA
1 408-573-1898 (Tel). 1 408-573-1858 (Fax). www.abbomax.com info@abbomax.com

DATA ATTACHMENTS



Immunohistochemistry: Human melanoma (FFPE) stained with Mouse anti-B7H4 (Cat# 604-720) at 1:200 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

REFERENCES

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