

Anti-B7-H4 [S2] Bulk Size Ab02977-3.0-BT

This full-length chimeric human antibody was made using the variable domain sequences of the original Chicken scFv format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG2b, Lambda

Clone Number: S2

Alternative Name(s) of Target: B7H4; B7 homolog 4; B7h.5; O8E; Immune costimulatory protein B7-H4; B7S1; Protein B7S1; B7x; T-cell costimulatory molecule B7x; VTCN1; V-set domain-containing T-cell activation inhibitor 1

UniProt Accession Number of Target Protein: Q7Z7D3

Published Application(s): WB, Block, ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing female white leghorn chickens with 50 µg of recombinant B7-H4 protein (Phe29 to Ala258) through intramuscular injection. The spleens of the chickens were harvested 7 days after the final immunization to construct an scFv antibody library. The antibody was isolated by panning against B7-H4 protein.

Specificity: This antibody binds a linear epitope comprising amino acids (VIQWLKEGVLGLVHEFK) of the human B7-H4.

Application Notes: This antibody recognized intact wild type human B7-H4 and linear epitope comprising amino acids 'VIQWLKEGVLGLVHEFK' in an ELISA. This antibody was also capable of recognizing B7-H4 in a western blot assay. The binding of this antibody to B7-H4 protein can effectively neutralize the immunosuppression response induced by B7-H4 proteins, thus enabling T-cells to retain their activation status (PMID: 33716253).

Antibody First Published in: Lin et al. Generation of avian-derived anti-B7-H4 antibodies exerts a blockade effect on the immunosuppressive response. Exp Anim. 2021 Aug 6;70(3):333-343. [PMID:33716253](#)

Note on publication: Describes the generation of chicken antibodies against human B7-H4.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without

added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.