



Anti-human SRCRB4D Antibody

ORDERING INFORMATION

Catalog Number: AF5654

Lot Number: CCTQ01

Size: 100 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human SRCRB4D

Immunogen: CHO cell-derived rhSRCRB4D isoform 1

Ig Type: sheep IgG

Applications: Western blot
Direct ELISA

Background

SRCRB4D (Scavenger receptor cysteine-rich domain group B four B-type domain containing) is a 56 kDa (predicted), secreted member of the SRCR superfamily. It is widely expressed and likely plays some role in innate immunity. Mature human SRCRB4D is 528 amino acids (aa) in length. It contains four SRCR domains (aa 58 - 573), each of which possesses three intradomain disulfide bonds. Although it contains no potential N-linked glycosylation sites, other types of posttranslational modification cannot be ruled out. There are three potential isoform variants. One shows a three aa substitution for aa 271 - 575, a second shows an 11 aa substitution for aa 1 - 24, and a third shows a 25 aa substitution for aa 1 - 416, accompanied by a six aa insertion after Gly445. Over aa 45 - 575, human and mouse SRCRB4D share 90% aa identity.

Preparation

Produced in sheep immunized with purified, CHO cell-derived, recombinant human SRCRB4D isoform 1 (rhSRCRB4D; aa 45 - 575; Accession # Q8WTU2). Human SRCRB4D specific IgG was purified by human SRCRB4D affinity chromatography.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

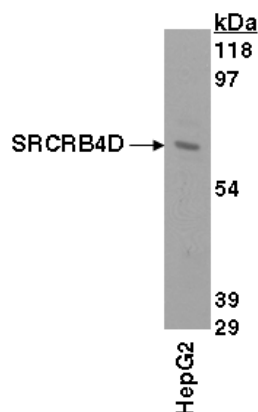
This antibody has been selected for its ability to recognize human SRCRB4D in direct ELISAs and Western blots. In direct ELISAs, this antibody shows less than 1% cross-reactivity with rhCD163.

Applications

Western blot - An antibody concentration of 1.0 µg/mL is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human SRCRB4D. The detection limit for rhSRCRB4D is approximately 0.3 ng/well.

Optimal dilutions should be determined by each laboratory for each application.



Detection of SRCRB4D with AF5654.

Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL sheep anti-hSRCRB4D.