Recombinant human ST2 protein (Fc Chimera Active)
ab219662

Overview

Product name: Recombinant human ST2 protein (Fc Chimera Active)
Protein length: Protein fragment

Description

Nature: Recombinant
Source: HEK 293 cells

Amino Acid Sequence

Accession: Q01638
Species: Human
Sequence: KFSKQSWGLEALVRCPSYTVWDYYSQTNKSIPTQERNRVTASGQLLFPAVADSGIYTCMVRSPTFRTGYANVTIFKQSDCNVPDLMYSTSVSGSEKNSKIsCTIDLYNWTAPLEWFKNCMQLQGRYRAHKSFLVI
DNVMITEDADYTCKFIIIENANGANYSVTATRSFTVKDEQGFLFPVIGAPA
QEIKEVEIGKNNALTCSCACFGKGTKQFLAAVLWQLNGKITDFGEPRIQQ
EEGQNQSFNSGLACLDLVLRADVKEELLLLQYDCLALNLHGLRHTVRLSRKNP

Molecular weight: 61 kDa including tags
Amino acids: 19 to 323
Additional sequence information: Extracellular domain with Human IgG1 Fc tag at the C-terminus.

Specifications

Our Abpromise guarantee covers the use of ab219662 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity: Immobilized Human IL-33, Tag Free at 5 μg/mL (100 μL/well) can bind ab219662 with a linear range of 1.95-7.8 ng/mL.

Applications:
- SDS-PAGE
- Functional Studies
### Preparation and Storage

**Stability and Storage**

Shipped at 4°C. Upon delivery aliquot. Store at -20°C long term. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA).

- **pH:** 7.5
- **Constituents:** 5% Trehalose, 0.61% Tris, 0.75% Glycine

This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution**

Reconstitute the lyophilized product in sterile deionized water to a final concentration of 1 mg/mL. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

### General Info

**Function**

Receptor for interleukin-33 (IL-33), its stimulation recruits MYD88, IRAK1, IRAK4, and TRAF6, followed by phosphorylation of MAPK3/ERK1 and/or MAPK1/ERK2, MAPK14, and MAPK8. Possibly involved in helper T-cell function.

**Tissue specificity**

Highly expressed in kidney, lung, placenta, stomach, skeletal muscle, colon and small intestine. Isoform A is prevalently expressed in the lung, testis, placenta, stomach and colon. Isoform B is more abundant in the brain, kidney and the liver. Isoform C is not detected in brain, heart, liver, kidney and skeletal muscle.

**Sequence similarities**

Belongs to the interleukin-1 receptor family.

Contains 3 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 TIR domain.

**Cellular localization**

Secreted and Cell membrane.

### Images
Functional Studies - Human ST2 protein (Fc Chimera) (ab219662)

Immobilized Human IL-33, Tag Free at 5 μg/mL (100 μL/well) can bind ab219662 with a linear range of 1.95-7.8 ng/mL.

SDS-PAGE - Human ST2 protein (Fc Chimera) (ab219662)

SDS-PAGE using ab219662. Migrates at 85-100 kDa under reducing conditions due to glycosylation.

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

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