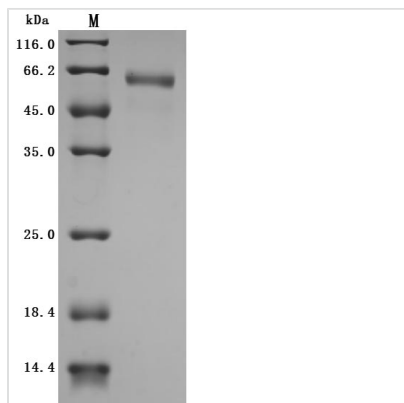


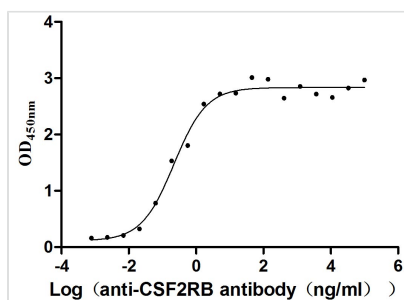


Recombinant Human Cytokine receptor common subunit beta (CSF2RB), partial (Active)

Product Code	CSB-MP006047HU
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P32927
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CSF2RB at 2 µg/mL can bind anti-CSF2RB antibody?CSB-RA006047A0HU?, the EC ₅₀ is 0.1594-0.3046 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	WERSLAGAEETIPLQTLRCYNDYTSHITCRWADTQDAQRLVNVTLIRRVNEDL LEPVSCDLSDDMPWSACPHPRCVPRRCVIPCQSFVVTVDYFSFQPDRPLGT RLTVTLTQHVPPEPRDLQISTDQDHFLLTWSVALGSPQSHWLSPGDLEFEVY YKRLQDSWEDAAILLSNTSQATLGPEHLMPSSTYVARVRTRLAPGSRLSGRPS KWSPEVCWDSQPGDEAQPQNLECFDGA AVLSCSWEVRKEVASSVSFGLFY KPSPDAGEEECSVPLREGLGSLHTRHHCQIPVDPATHGQYIVSVQPRRAEK HIKSSVNIQMAPPVSLNVTKDGD SYSLRWETMKMRYEHIDHTFEIQYRKDTATW KDSKTETLQNAHSMALPALEPSTRYWARVRVRTSRTGYNGIWSEWSEARSW DTESVLP MW
Source	Mammalian cell
Target Names	CSF2RB
Expression Region	17-443aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	50.9 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized CSF2RB at 2 µg/ml can bind anti-CSF2RB antibody?CSB-RA006047A0HU?, the EC₅₀ is 0.1594-0.3046 ng/mL.

Description

This Human CSF2RB recombinant protein was produced in mammalian cell, where the gene sequence encoding Human CSF2RB (17-443aa) was expressed with the C-terminal 6xHis tag. The purity of this CSF2RB protein was greater than 95% by SDS-PAGE. The activity has been validated.

As a β subunit shared by three cytokine receptors of IL-3, GM-CSF and IL-5, CSF2RB mainly plays the role of signaling cytokines. There are many studies on hematological diseases. CSF2RB promotes both proliferation and differentiation of hematopoietic cells, and plays an important role in maintaining the balance of proliferation, differentiation and self-renewal of hematopoietic cells. Further research on the structure and function of CSF2RB is conducive to the exploration of the malignant proliferation mechanism of leukemia cells, and lays a foundation for further research and treatment strategies for leukemia from the receptor/ligand molecular level. CSF2RB protein can be used as a specific marker protein for the diagnosis of prostate cancer bone metastasis, which makes the diagnosis of prostate cancer bone metastasis more accurate and rapid. The CSF2RB protein can also be used as a molecular drug for the preparation of prostate cancer bone metastasis, and provides a new therapeutic approach for prostate cancer bone metastasis.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.



Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.