

Product datasheet

Recombinant rat CD130 (gp130) protein (Fc Chimera) ab214595

Description

Product name Recombinant rat CD130 (gp130) protein (Fc Chimera)
Biological activity Measured by its binding ability in a functional ELISA.
Purity >= 98 % SDS-PAGE.

Endotoxin level < 5.000 Eu/mg

Expression system HEK 293 cells

Accession **P40190**

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Rat

Sequence

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QLVEPCGYIPEFPVQR GSNFTATCVL KEKCLQVYSV
NATYVWKTN HVAVPKEQVT VINRTASSVT
FTDVVFQNVQ LTCNILSFGQ IEQNVYGITILSGYPPDIPT
NLSCVNEGK NMLCQLDPGR ETYLETNYTL
KSEWATEKFP DCRTKHGTSS CMMGYTPIYF
VNIEVWVEAE NALGNVSSEP INFDPVDKVK
PSPPHNLSVT NSEELSSILK LAWVNSGLDS ILRLKSDIQY
RTKDASTWIQ VPLEDTVSPR TSFTVQDLKP FTEYVFRIRS
IKENGKGYWS DWSEEASGTT YEDRPSKAPS
FWYKVNANHP QEYRSARLIW KTLPLSEANG
KILDYEVVLT QSKSVSQTYT VNGTELMNL TNNRYVASLA
ARNVVGKSPA TVLTIPGSHF KASHPVVDLK
AFPKDNLLWV EWTPPSKPVN KYILEWCVLS
ENSPCIPDWQ QEDGTVNRTH LRGSLLESKC
YLITVTPVFP GPGSPESMK AYLKQAAPSK
GPTVRTKKVG KNEAVLEWDH LPVDVQNGFI
RNYSISYRTS VGKEMVVRVD SSHTEYTLSS
LSSDTLYMVH MAAYTEEGGK DGPEFTFTTL KFAQGEIE

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Predicted molecular weight 67 kDa

Amino acids 23 to 618

Additional sequence information Extracellular domain fused to the N-terminus of the Fc region of Human IgG1 (NP_001008725.2).

Specifications

Our **Abpromise guarantee** covers the use of **ab214595** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications Functional Studies

SDS-PAGE

Form Lyophilized

Preparation and Storage

Stability and Storage Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.

Constituent: PBS

0.2µm-filtered

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

Reconstitution Reconstitute vial in 50 µL sterile water. Add 1X PBS to the desired protein concentration. Working aliquots are stable for up to 3 months when stored at -20°C.

General Info

Function Signal-transducing molecule. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. Binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. Does not bind IL6. May have a role in embryonic development (By similarity). The type I OSM receptor is capable of transducing OSM-specific signaling events.

Tissue specificity Found in all the tissues and cell lines examined. Expression not restricted to IL6 responsive cells.

Sequence similarities Belongs to the type I cytokine receptor family. Type 2 subfamily.

Contains 5 fibronectin type-III domains.

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Domain The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding.

The box 1 motif is required for JAK interaction and/or activation.

Post-translational modifications Phosphorylation of Ser-782 down-regulates cell surface expression.

Heavily N-glycosylated.

Cellular localization Secreted and Cell membrane.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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