

Eng

## Recombinant Mouse CD105 / Endoglin, soluble

|                                 |  |                  |               |
|---------------------------------|--|------------------|---------------|
| <b>Catalog No.</b>              | CRC805A<br>CRC805B   | <b>Quantity:</b> | 5 µg<br>25 µg |
| <b>Alternate Names:</b>         | Cell surface Mj7/18  |                  |               |
| <b>Description:</b>             | Endoglin, also known as CD105, is a Type I integral membrane glycoprotein with a large, disulfide-linked, extracellular region and a short, constitutively phosphorylated, cytoplasmic tail. Two splice variants of human endoglin, the S-endoglin and L-endoglin that differ in the length of their cytoplasmic tails have been identified. Endoglin is highly expressed on vascular endothelial cells, chondrocytes, and syncytiotrophoblasts of term placenta. It is also found on activated monocytes, bone marrow pro-erythroblasts, and leukemic cells of lymphoid and myeloid lineages. Human and mouse endoglin share approximately 70% and 97 % amino acid sequence identity in their extracellular and intracellular domains, respectively. In common with betaglycan (also named TβRIII), a proteoglycan that shares regions of sequence similarity, endoglin is an accessory receptor for the TGF superfamily ligands. |                  |               |
| <b>UniProt ID:</b>              | Q63961   |                  |               |
| <b>Label:</b>                   | His-Tag  |                  |               |
| <b>Source:</b>                  | Insects cells  |                  |               |
| <b>Molecular Weight:</b>        | 70-75 kDa (558 aa) disulfide-linked homodimer, predicted 61 kDa  |                  |               |
| <b>Formulation:</b>             | Lyophilized from PBS   |                  |               |
| <b>Purity:</b>                  | > 90% by SDS-PAGE, visualized by silver stain.   |                  |               |
| <b>Endotoxin Level:</b>         | < 1 EU/µg  |                  |               |
| <b>Biological Activity:</b>     | Measured by its ability to bind with TGF-β RII/Fc in a functional ELISA.   |                  |               |
| <b>Amino Acid Sequence:</b>     | ERVGC DLQPVD PTRGEVTF TTSQVSEGCVAQAANAVREVHVLFLDFPGMLSHLELT LQ<br>ASKQNGTETQE VFLVLSNKNV FVKFAPEIPLHLAYDSSLVIFQGGPRVNITVLP SLT SR<br>KQILDWAATKGAITSIAALDDPQSIVLQLGQDPKAPFLCLPEAHKDMGATLEWQPRAQT<br>PVQSCRLEGVSGHKEAYILRILPGSEAGPRTVTMMEL SCTSGDAILILHGPPYVSWFIDI<br>NHSMQILTTGEYSVKIFPGSKDKGVELPDP T PQGLIAEARKLNASIVTSFVELPLVSNVSLR<br>ASSCGGVFQ TTPAPVVTTPPKDTCSPVLLMSLIQPKCGNQVMTLALNKKHVQTLQCTIT<br>GLTFWDSSCQAEDTDDHLVLSSAYSSCGMKVTAHVVSNEVIISFPGSPPLRKKVQCID<br>MDSL SFQLGLYLSPHFLQASNTIELGQAFVQVSVSPLTSEVTVQLDSCHLDLGPEGDM<br>VELIQSRTAKGSCVTLLSPSPEGDP RFSFLLRVYMVPTPTAGTLSCNLALRPSTLSQEVY<br>KTVSMRLNIVSPDL SHHHHHH  |                  |               |
| <b>Reconstitution:</b>          | <b>Centrifuge vial prior to opening.</b> Add sterile PBS or medium to the vial to a concentration of 0.1 - 1.0 mg/mL. <b>Do not vortex.</b> After complete solubilization of the protein, it may be further diluted with other solutions containing a carrier protein such as 0.1 % BSA.   |                  |               |
| <b>Storage &amp; Stability:</b> | The lyophilized protein is stable at -20°C to -80° for up to 1 year. Reconstituted working aliquots are stable for 1 week at 2-8°C and for 3 months at -20°C to -80°C.<br><b>Avoid repeated freeze/thaw cycles.</b>  |                  |               |

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