

Product datasheet for RC211765

SIRPB1 (NM_006065) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIRPB1 (NM_006065) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIRPB1
Synonyms:	CD172b; SIRP-BETA-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211765 representing NM_006065 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCCGTGCCAGCCTCCTGGCCCCACCTTCTAGTCCTTCTGCTGATGACGCTACTGCTGGGGAGAC
TCACAGGAGTGGCAGGTGAGGACGAGCTACAGGTGATTCAGCCTGAAAAGTCCGTATCAGTTGCAGCTGG
AGAGTCGGCCACTCTGTGCTGTGCTATGACGTCCCTGATCCCTGTGGGGCCCATCATGTGGTTTAGAGGA
GCTGGAGCAGGCCGGAATTAATCTACAATCAGAAAGAAGGCCACTTCCCACGGGTAACAACTGTTTCAG
AACTCACAAAGAGAAACAACCTGGACTTTCCATCAGCATCAGTAACATCACCCAGCAGACGCCGGCAC
CTACTACTGTGTGAAGTTCGGAAAGGGAGCCCTGACGACGTGGAGTTTAAAGTCTGGAGCAGGCACTGAG
CTGTCTGTGCGCGCCAAACCTCTGCCCCCGTGGTATCGGGCCCTGCGGTGAGGGCCACACCTGAGCACA
CAGTGAGCTTCACCTGCGAGTCCCATGGCTTCTCTCCAGAGACATCACCTGAAATGGTTCAAAAATGG
GAATGAGCTCTCAGACTTCAGACCAACGTGGACCCCGCAGGAGACAGTGTGTCTACAGCATCCACAGC
ACAGCCAGGGTGGTGTGACCCGTGGGACGTTCACTCTCAAGTCATCTGCGAGATGGCCACATCACCT
TGCAGGGGGACCCCTTTCGTGGGACTGCCAACTGTCTGAGGCCATCCGAGTTCACCCACCTTGGAGGT
TACTCAACAGCCCATGAGGGCAGAGAACCAGGCAACGTCACCTGCCAGGTGAGCAATTTCTACCCCGG
GGACTACAGCTGACCTGGTTGGAGAATGGAAATGTGCCGGACAGAAACAGCTTCGACCCTCATAGAGA
ACAAGGATGGCACCTACAACCTGGATGAGCTGGCTCCTGGTGAACACCTGTGCCACAGGGACGATGTGGT
GCTCACCTGTGAGGTGGAGCATGATGGGACGAAGCAGTCAGCAAAAGCTATGCCCTGGAGATCTCAGCA
CACCAGAAGGAGCACGGCTCAGATATCACCCATGAACCAGCGCTGGCTCCTACTGCTCCACTCCTCGTAG
CTCTCCTCCTGGGCCCAAGCTGCTACTGGTGGTTGGTGTCTCTGCCATCTACATCTGCTGGAAACAGAA
GGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC211765 representing NM_006065
Red=Cloning site Green=Tags(s)

MPVPASWPHLPSFLLMTLLGRLTGVAGEDELQVIQPEKSVSVAAGESATLCCAMTSLIPVGPIMWFRG
 AGAGRELIYNQKEGHFPRVTTVSELTKRNLDIFSISINITPADAGTYCVKFRKGPDDVEFKSGAGTE
 LSVRAKPSAPVVSQPAVRATPEHTVSFTCESHGFSRPDITLKWFKNGNELSDFQTNVDPAGDSVSYSIHS
 TARVVLTRGDVHSQVICEMAHITLQGDPLRGTANLSEAIRVPPTLEVTQQPMPRAENQANVTCQVSNFYPR
 GLQLTWLENGNVSRTETASTLIENKDGTYNWMWLLVNTCAHRDDVVLTCQVEHDGQQAVSKSYALEISA
 HQKEHGS DITHEPALAPTAPLLVALLLGPKLLL VVGVS A I Y I C W K Q K A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6492_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_006065

ORF Size: 1194 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_006065.5](#)

RefSeq Size: 3804 bp

RefSeq ORF: 1197 bp

Locus ID: 10326

UniProt ID: [O00241](#)

Cytogenetics: 20p13

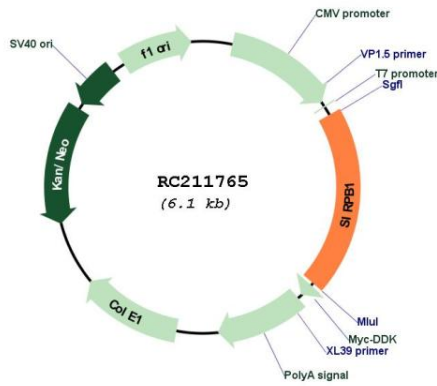
Domains: ig, IGc1, IG

Protein Families: Druggable Genome, Transmembrane

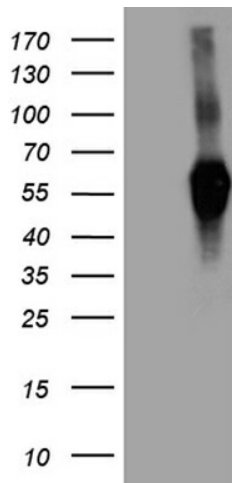
MW: 43.2 kDa

Gene Summary: The protein encoded by this gene is a member of the signal-regulatory-protein (SIRP) family, and also belongs to the immunoglobulin superfamily. SIRP family members are receptor-type transmembrane glycoproteins known to be involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. This protein was found to interact with TYROBP/DAP12, a protein bearing immunoreceptor tyrosine-based activation motifs. This protein was also reported to participate in the recruitment of tyrosine kinase SYK. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2009]

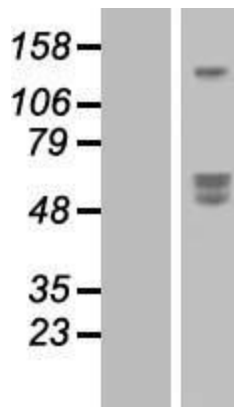
Product images:



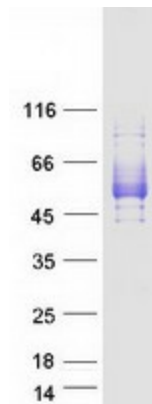
Circular map for RC211765



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SIRPB1 (Cat# RC211765, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SIRPB1 (Cat# [TA811570])(1:2000). Positive lysates [LY416898] (100ug) and [LC416898] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY427721]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226750] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIRPB1 protein (Cat# [TP311765]). The protein was produced from HEK293T cells transfected with SIRPB1 cDNA clone (Cat# RC211765) using MegaTran 2.0 (Cat# [TT210002]).