

Product datasheet for MC209712

Ceacam1 (NM_011926) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids Product Name: Ceacam1 (NM_011926) Mouse Untagged Clone Tag: Tag Free Ceacam1 Symbol: Synonyms: bb-1; Bgp; Bgp1; C-CAM; Cc1; CD66a; Cea-1; Cea-7; Cea1; Cea7; Hv-2; Hv2; mCEA1; Mhv-1; MHVR: MHVR1 pCMV6-Entry (PS100001) Vector: E. coli Selection: Kanamycin (25 ug/mL) **Cell Selection:** Neomycin **Fully Sequenced ORF:** >MC209712 representing NM_011926 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGCTGGCCTCAGCACATCTCCACAAAGGGCAGGTTCCCTGGGGAGGACTACTGCTCACAGCCTCAC TTTTAGCCTCCTGGAGCCCTGCCACCACTGCTGAAGTCACCATTGAGGCTGTGCCGCCCCAGGTTGCTGA AGACAACAATGTTCTTCTACTTGTTCACAATCTGCCCCTGGCGCTTGGAGCCTTTGCCTGGTACAAGGGA AACACTACGGCTATAGACAAAGAAATTGCACGATTTGTACCAAATAGTAATATGAATTTCACGGGGCAAG CATACAGCGGCAGAGAGATAATATACAGCAATGGATCCCTGCTCTTCCAAATGATCACCATGAAGGATAT GGGAGTCTACACACTAGATATGACAGATGAAAACTATCGTCGTACTCAGGCGACTGTGCGATTTCATGTA CACCAGCCAGTGACTCAGCCCTTCCTCCAAGTCACCAACACCACAGTCAAAGAACTAGACTCTGTGACCC TGACCTGCTTGTCGAATGACATTGGAGCCAACATCCAGTGGCTCTTCAATAGCCAGAGTCTTCAGCTCAC AGAGAGAATGACACTCTCCCAGAACAACAGCATCCTCAGAATAGACCCTATTAAGAGGGAAGATGCCGGC TTGACCCAACACAAGGAGGCCTCTCAGATGGCGCCATTGCTGGCATCGTGATTGGAGTTGTGGCTGGGGT GGCTCTAATAGCAGGGCTGGCATATTTCCTCTATTCCAGGAAGTCTGGCGGGGGAAGTGACCAGCGAGAT CTCACAGAGCACAAACCCTCAGCCTCCAACCACAATCTGGCTCCTTCTGACAACTCTCCTAACAAGGTGG ATGACGTCGCATACACTGTCCTGAACTTCAATTCCCAGCAACCCGACCGGCCAACTTCAGCCCCTTCTTC TCCAAGAGCCACAGAAACAGTTTATTCAGAAGTAAAAAAGAAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA **Restriction Sites:** Sgfl-Mlul



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9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Ceacam1 (NM_011926) Mouse Untagged Clone – MC209712

ACCN:NM_011926Insert Size:1026 bpOTI Disclaimer:Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).Components:Carefully open the tube and dot 100ul of sterile water to dissolve the DNA. 3. Close the tube and dot 100ul of sterile water to dissolve the DNA. 3. Close the tube and add 100ul of sterile water to dissolve the DNA. 3. Close 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.RefSeqNM_011926.2, NP 036056.2RefSeq ORF:1026 bpLocus ID:26365Cytogenetics:7 13.84 cMGene Summary:Isoform 1: Cell adhesion protein that mediates homophilic cell adhesion in a calcium- independent manner (By similarity). Plays a role as coinhibitory receptor in immune response, insulin action and functions also as an activator during angiogenesis (PubMed:1680193, PubMed:2102966), PubMed:2102966, PubMed:1020169, PubMed:10031782, PubMed:2206250, PubMed:210296621, Networkin their dwatrasm effectors (PubMed:17081782, PubMed:21029669, PubMed:21081647, PubMed:22096641, PubMed:22096629, PubMed:220866210, Scionhibitory receptor function is phosphorylation- and PTPNO-dependent, which in turn, suppress signal transduction of associated receptors by dephosphorylation of their dwantsmare meffectors (PubMed:17081782, PubMed:221029669, PubMed:22096621, Is coinhibitory receptor function is phosph		
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activation negatively regulates IL1B production by recruiting PTPN6 to a SYK-TLR4-CEACAM1 complex, that dephosphorylates SYK, reducing the production of reactive oxygen species (ROS) and lysosome disruption, which in turn, reduces the activity of the inflammasome (PubMed:22496641). Downregulates neutrophil production by acting as a coinhibitory receptor for CSF3R by downregulating the CSF3R-STAT3 pathway through recruitment of PTPN6 that dephosphorylates CSF3R (PubMed:21029969). Also regulates insulin action by promoting INS clearance and regulating lipogenesis in liver through regulating insulin signaling (PubMed:18544705). Upon INS stimulation, undergoes phosphorylation by INSR leading to INS clearance by increasing receptor-mediated insulin endocytosis. This inernalization promotes interaction with FASN leading to receptor-mediated insulin degradation and to reduction of FASN activity leading to negative regulation of fatty acid synthesis. INSR-mediated phosphorylation also provokes a down-regulation of cell proliferation through SHC1 interaction resulting in decrease coupling of SHC1 to the MAPK3/ERK1-MAPK1/ERK2 and phosphatidylinositol 3-kinase pathways (By similarity). Functions as activator in angiogenesis by promoting blood vessel remodeling through endothelial cell differentiation and migration and in arteriogenesis by increasing the number of collateral arteries and collateral vessel calibers after ischemia (PubMed:16680193, PubMed:22962327). Also regulates vascular permeability through the VEGFR2 signaling pathway resulting in control of nitric oxide production (PubMed:21081647). Downregulates cell growth in response to EGF through its interaction with SHC1 that mediates interaction with EGFR resulting in decrease coupling of SHC1 to the MAPK3/ERK1-MAPK1/ERK2 pathway (PubMed:15467833). Negatively regulates platelet aggregation by decreasing platelet adhesion on type I collagen through the GPVI-FcRgamma complex (PubMed:19008452). Inhibits cell migration and cell scattering through interaction with FLNA; interfers with the interaction of FLNA with RALA (By similarity). Mediates bile acid transport activity in a phosphorylation dependent manner (By similarity). Negatively regulates osteoclastogenesis (PubMed:25490771).[UniProtKB/Swiss-Prot Function]

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