

Product datasheet for **TP502488**

Clec4d (NM_001163161) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse C-type lectin domain family 4, member d (Clec4d), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR202488 protein sequence Red =Cloning site Green =Tags(s)
	MWLEESQMKSkgTRHPQLIPCVFAVVSISFLSACFISTCLVTHHYFLRWTRGSVVKLSDYHTRVTCIREE PQPGATGGTWTCCPVSWRAFQSNCFPLNDNQTWHERNCSGMSSHLVTINTEAEQNFVTQLLDRKFSY FLGLADENVEGQWQWVDKTPFNPHTVFWKESNDFMEEDCVLVHVHEKWWWVDFPCHFVRRICKLPG ITFNWKPSK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	25.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001156633
Locus ID:	17474
UniProt ID:	Q9Z2H6 , Q3UBK0
RefSeq Size:	1333



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Cytogenetics: 6 58.33 cM

RefSeq ORF: 660

Synonyms: Clecsf8; mcl; Mpcl

Summary: A calcium-dependent lectin involved in innate recognition of pathogen-associated molecular patterns (PAMPs). Interacts with signaling adapter Fc receptor gamma chain/FCER1G, likely via CLEC4E, to form a functional complex in antigen presenting cells. Binding of mycobacterial trehalose 6,6'-dimycolate (TDM) to this receptor complex leads to phosphorylation of the immunoreceptor tyrosine-based activation motif (ITAM) of FCER1G, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen-specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes (PubMed:23602766). Functions as an endocytic receptor. May be involved in antigen uptake at the site of infection, either for clearance of the antigen, or for processing and further presentation to T-cells (By similarity).[UniProtKB/Swiss-Prot Function]