

## Product datasheet for **TP727276**

### CD161 (KLRB1) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human KLRB1/CD161 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Gln67-Ser225
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Killer cell lectin-like receptor subfamily B member 1 is produced by our Mammalian expression system and the target gene encoding Gln67-Ser225 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	3820
UniProt ID:	<a href="#">Q12918</a>
Summary:	Killer cell lectin-like receptor subfamily B, member 1(KLRB1) is a single-pass type II membrane protein which contains 1 C-type lectin domain. KLRB1 plays an inhibitory role on natural killer (NK) cells cytotoxicity. Activation results in specific acid sphingomyelinase/SMPD1 stimulation with subsequent marked elevation of intracellular ceramide. Activation also leads to AKT1/PKB and RPS6KA1/RSK1 kinases stimulation as well as markedly enhanced T-cell proliferation induced by anti-CD3. It acts as a lectin that binds to the terminal carbohydrate Gal-alpha(1,3)Gal epitope as well as to the N-acetyllactosamine epitope. Binds also to CLEC2D/LLT1 as a ligand and inhibits NK cell-mediated cytotoxicity as well as interferon-gamma secretion in target cells.



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