

## Product datasheet for **TP726688**

### SLAMF7 Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human SLAMF7 (C-mFc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser23-Met226
Tag:	C-mFc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
Note:	Recombinant Human SLAM Family Member 7 is produced by our Mammalian expression system and the target gene encoding Ser23-Met226 is expressed with a mFc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	57823
UniProt ID:	<a href="#">Q9NQ25</a>
Summary:	SLAMF7 is a single-pass type I membrane protein and contains 1 Ig-like C2-type (immunoglobulin-like) domain. SLAMF7 is expressed in NK cells, activated B-cells, NK-cell line but not in promyelocytic, B-cell lines, or T-cell lines. Although the cytoplasmic domain of CS1 contains immunoreceptor tyrosine-based switch motifs (ITSM), which enables to recruit signaling lymphocyte activation molecule (SLAM)-associated protein (SAP/SH2D1A), it activates NK cells in the absence of a functional SAP. SLAMF7 positively regulated natural killer cell functions by a mechanism dependent on the adaptor EAT-2 but not the related adaptor SAP. However, in the absence of EAT-2, CRACC potently inhibited natural killer cell function. It was also inhibitory in T cells, which are typically devoid of EAT-2. Thus, SLAMF7 can exert activating or inhibitory influences on cells of the immune system depending on cellular context and the availability of effector proteins.



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