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Anti-TREM1 / CD354 Reference Antibody (PY159)

Recombinant Antibody
Catalog # APR10215

Specification

Anti-TREM1 / CD354 Reference Antibody (PY159) - Product Information

Application	**FC, Kinetics, Animal Model**
Primary Accession	Q9NP99
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**143.66 KDa**

Anti-TREM1 / CD354 Reference Antibody (PY159) - Additional Information

Target/Specificity
TREM1 / CD354

Endotoxin
< 0.001EU/ μg,determined by LAL method.

Conjugation
Unconjugated

Expression system
CHO Cell

Format
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Anti-TREM1 / CD354 Reference Antibody (PY159) - Protein Information

Name TREM1

Function
[Isoform 1]: Cell surface receptor that plays important roles in innate and adaptive immunity by amplifying inflammatory responses (PubMed:10799849, PubMed:21393102). Upon activation by various ligands such as PGLYRP1, HMGB1 or HSP70, multimerizes and forms a complex with transmembrane adapter TYROBP/DAP12 (PubMed:17568691, PubMed:25595774, PubMed:29568119). In turn, initiates a SYK-mediated cascade of tyrosine phosphorylation, activating multiple downstream mediators such as BTK, MAPK1, MAPK3 or phospholipase C-gamma (PubMed:14656437, PubMed:21659545). This cascade

promotes the neutrophil- and macrophage- mediated release of pro-inflammatory cytokines and/or chemokines, as well as their migration and thereby amplifies inflammatory responses that are triggered by bacterial and fungal infections (PubMed:17098818, PubMed:17568691). By also promoting the amplification of inflammatory signals that are initially triggered by Toll-like receptor (TLR) and NOD-like receptor engagement, plays a major role in the pathophysiology of acute and chronic inflammatory diseases of different etiologies including septic shock and atherosclerosis (PubMed:11323674, PubMed:21393102).

Cellular Location
[Isoform 1]: Cell membrane; Single-pass type I membrane protein. Note=Recruited to lipid rafts when activated.

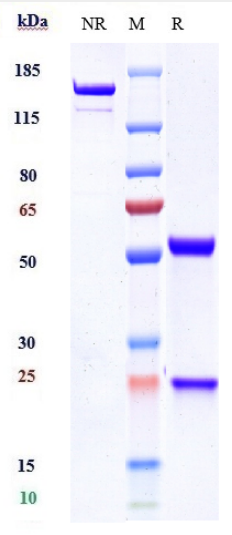
Tissue Location
Mostly expressed by immune cells of the myeloid lineage, such as monocytes, macrophages, neutrophils and dendritic cells (PubMed:10799849). Expression is associated with a mature stage of myeloid development (PubMed:11922939). Highly expressed in adult liver, lung and spleen than in corresponding fetal tissue. Also expressed in the lymph node, placenta, spinal cord and heart tissues Isoform 2 was detected in the lung, liver and mature monocytes

Anti-TREM1 / CD354 Reference Antibody (PY159) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-TREM1 / CD354 Reference Antibody (PY159) - Images



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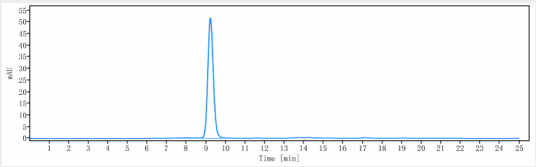
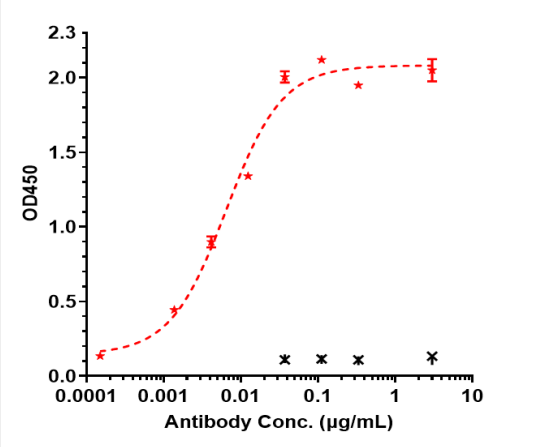
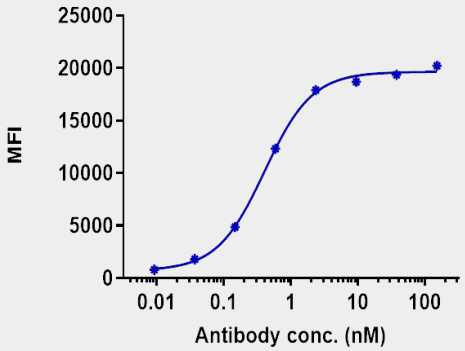
Anti-TREM1 / CD354 Reference Antibody (PY159) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%



The purity of Anti-TREM1 / CD354 Reference Antibody (PY159)is more than 95% ,determined by SEC-HPLC.



Immobilized human TREM1 His at 2 μg/mL can bind Anti-TREM1 / CD354 Reference Antibody (PY159)，EC50=0.00645 μg/mL



Human TREM1 HEK293 cells were stained with Anti-TREM1 / CD354 Reference Antibody (PY159) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC275=0.7744nM

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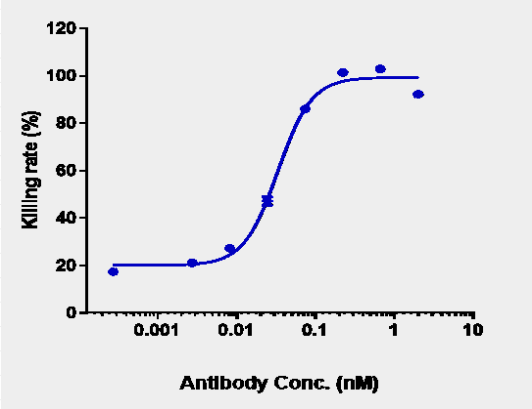
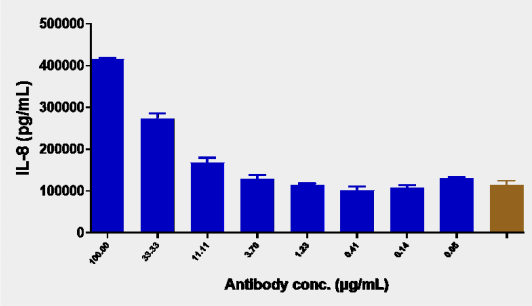


The endocytosis ratio PY159 by hu-TREM1-HEK293 increased with the increase of antibody concentration, and the Internalization Rate (%) reached 80% at antibody concentration of 0.3 nM.



Anti-TREM1 Reference Antibody (PY159) Activation was evaluated using PBMC. The max induction fold was approximately 3.16