

Mouse anti-Human CD354 Antibody | anti-CD354 antibody

Anti-Hu CD354 APC

CATALOG # AAA129354	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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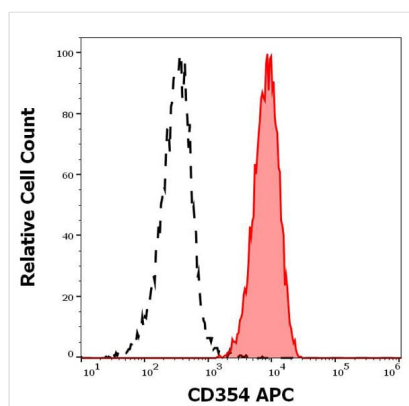
PRODUCT SYNONYMS

CD354; Anti-Hu CD354 APC; triggering receptor expressed on myeloid cells 1; TREM-1; anti-CD354 antibody

PRODUCT SPECIFICATIONS

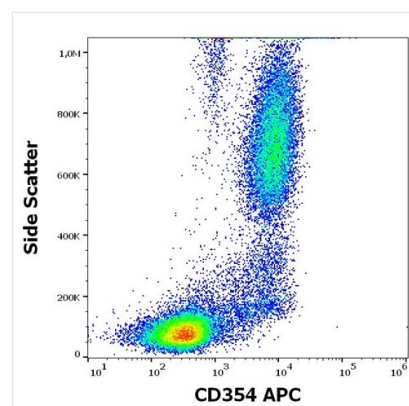
Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1
Clone Number	6B1
Specificity	The mouse monoclonal antibody 6B1 (also known as 6B1.1G12) recognizes an extracellular epitope of human CD354 (TREM-1), a transmembrane glycoprotein, serving as an important innate immunity receptor.
Purity/Purification	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD354 antibody	FCM/FACS (Flow Cytometry)
Immunogen	recombinant human CD354 fused with IgG
Conjugation	APC
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD354 (6B1) APC antibody (10ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD354 (6B1) APC antibody (10ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD354 antibody	CD354 (TREM-1), a cell surface glycoprotein expressed mainly on monocytes, macrophages, and neutrophils, but also on e.g. endothelial cells or bronchial epithelium, plays an important role in innate immune responses. Upon triggering by its ligands (mainly bacterial and fungal components, but also some viruses, such as Marburg or Ebola virus), it initiates signaling cascades leading to release of pro-inflammatory cytokines and chemokines. CD354 is strongly present in infectious inflammatory lesions (e.g. in folliculitis or impetigo), but not so much in non-infectious inflammatory lesions, (e.g. vasculitis or psoriasis). However, under certain conditions neutrophils can upregulate CD354 also under non-infectious inflammatory conditions, e.g. in rheumatoid arthritis. Soluble CD354 (sTREM-1) is an important biomarker for identification of septic patients, as well as for prediction of their survival.
References	*Kuemmel A, Alfien A, Schmidt LH, Sebastian M, Wiewrodt R, Schulze AB, Buhl R, Radsak M: Soluble triggering receptor expressed on myeloid cells 1 in lung cancer. Sci Rep. 2018 Jul 17;8(1):10766. , URL: https://pubmed.ncbi.nlm.nih.gov/30018308/ ,*Alflen A, Stadler N, Lopez PA, Teschner D, Theobald M, Heß G, Radsak MP: Idelalisib impairs TREM-1 mediated neutrophil inflammatory responses. Sci Rep. 2018 Apr 3;8(1):5558., URL: https://pubmed.ncbi.nlm.nih.gov/29615799/ ,*Prüfer S, Weber M, Sasca D, Teschner D, Wolfel C, Stein P, Stassen M, Schild H, Radsak MP: Distinct signaling cascades of TREM-1, TLR and NLR in neutrophils and monocytic cells. J Innate Immun. 2014;6(3):339-52. , URL: https://pubmed.ncbi.nlm.nih.gov/24281714/ ,*Hasibeder A, Stein P, Brandwijk R, Schild H, Radsak MP: Evaluation and validation of the detection of soluble triggering receptor expressed on myeloid cells 1 by enzyme-linked immunosorbent assay. Sci Rep. 2015 Oct 20;5:15381., URL: https://pubmed.ncbi.nlm.nih.gov/26480887/ ,

NCBI AND UNIPROT INFORMATION

NCBI GI #	336088680
NCBI GeneID	54210
NCBI Accession #	NP_001229518.1
NCBI GenBank Nucleotide #	NM_001242589.1
UniProt Accession #	Q9NP99 ; Q53FL8 ; Q5T2C9 ; Q86YU1 ; B4DWG2
Molecular Weight	26,387 Da
NCBI Official Full Name	triggering receptor expressed on myeloid cells 1 isoform 2
NCBI Official Synonym Full Names	triggering receptor expressed on myeloid cells 1
NCBI Official Symbol	TREM1
NCBI Official Synonym Symbols	CD354; TREM-1
NCBI Protein Information	triggering receptor expressed on myeloid cells 1; triggering-receptor TREM1; triggering receptor expressed on monocytes 1
UniProt Protein Name	Triggering receptor expressed on myeloid cells 1
UniProt Gene Name	TREM1
UniProt Synonym Gene Names	TREM-1
UniProt Entry Name	TREM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/cd354/129354>