

DESCRIPTION

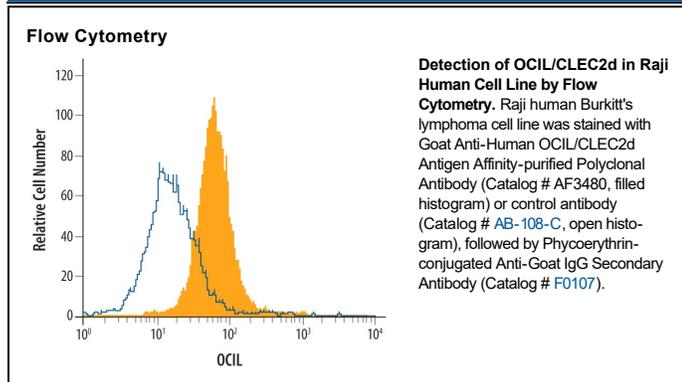
Species Reactivity	Human
Specificity	Detects human OCIL/CLEC2d in direct ELISAs and Western blots. In direct ELISAs, less than 10% cross-reactivity with recombinant mouse (rm) OCIL is observed and less than 1% cross-reactivity with recombinant human (rh) CLEC2B, and rhCLEC2A is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human OCIL/CLEC2d Ser57-Val191 Accession # Q9UHP7
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human OCIL/CLEC2d
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human OCIL/CLEC2d, also known as Lectin-Like Transcript-1 (LLT-1), is a type II transmembrane protein belonging to the natural killer (NK) cell receptor group of the C-type lectin superfamily. It is found on hematopoietic cells, osteoblasts, and chondrocytes. By alternative splicing, at least three isoforms exist. Isoform 1 is synthesized as a 191 amino acid (aa) precursor with a C-terminal 132 aa extracellular domain (ECD) that contains the C-type lectin domain. The aa sequence of human OCIL isoform 1 ECD is 49% and 50% identical to the mouse and rat OCIL ECD, respectively. Human OCIL preferentially binds high molecular weight sulfated glycosaminoglycans and is a ligand for the single human NKR-P1A receptor (CD161). Human OCIL blocks osteoclast differentiation. Engagement of OCIL with CD161 on NK cells also inhibits NK cell-mediated cytotoxicity and IFN-γ secretion.