

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AICL/CLEC-2B in direct ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 1064941
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived human AICL/CLEC-2B Lys26-His149 Accession # Q92478
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Activation-induced C-type lectin (AICL), also known as CLEC2B, is a 30-35 kDa variably glycosylated type-2 transmembrane member of the C-type lectin-like receptor (CTLR) family. AICL belongs to the subgroup of CLEC2 proteins that also includes CLEC2A/KACL, CLEC2D/LLT, and CD69/CLEC2C, all of which are encoded by the natural killer gene complex (1). Human AICL contains a single C-type lectin domain in its extracellular region and a 7 amino acid cytoplasmic tail (2). AICL is expressed on monocytes, macrophages, and granulocytes (3), and it is upregulated on TLR-activated monocytes and IL-12 + IL-18 activated NK cells (3, 4). AICL is an activating receptor that triggers TNF production by monocytes (3). It binds to NKp80 on NK cells, resulting in NK cell mediated lysis of the AICL expressing monocyte (3). In addition, the AICL-NKp80 axis mediates interactions between activated and resting NK cells (4).

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