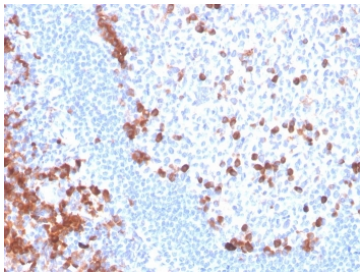
B7-H6 Antibody B7H6/4821 / NCR3LG1 Monoclonal Antibody [clone B7H6/4821] (V8734)

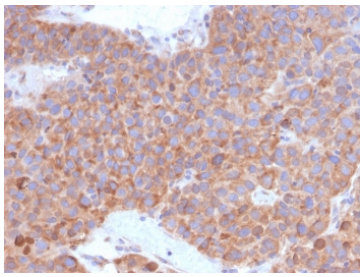
Catalog No.	Formulation	Size
V8734-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8734-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8734SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

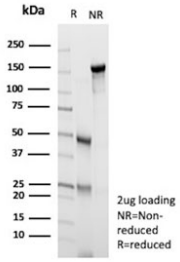
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	B7H6/4821
Purity	Protein G affinity chromatography
UniProt	Q68D85
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This B7-H6 Antibody B7H6/4821 / NCR3LG1 Monoclonal Antibody is available for research use only.



B7-H6 Antibody B7H6/4821 in Human Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with B7-H6 Antibody clone B7H6/4821. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. Strong brown staining is present in discrete clusters and individual cells distributed among a predominantly negative lymphoid population, producing a clearly selective staining pattern. This tissue localization supports detection of B7-H6 with the NCR3LG1 Monoclonal Antibody.



B7-H6 Antibody B7H6/4821 in Human Liver Carcinoma IHC. Immunohistochemistry staining of FFPE human liver carcinoma tissue with B7-H6 Antibody clone B7H6/4821. HIER was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min followed by cooling before testing. The image shows strong brown staining throughout the carcinoma cells, with prominent membranous and cytoplasmic labeling and comparatively little staining in the intervening stromal areas. This tumor-cell staining demonstrates tissue recognition with the NCR3LG1 Monoclonal Antibody.



Purified B7-H6 Antibody B7H6/4821 SDS-PAGE. SDS-PAGE analysis of 2 ug purified, BSA-free B7-H6 Antibody clone B7H6/4821 under reducing (R) and non-reducing (NR) conditions. The reduced sample shows the expected immunoglobulin heavy and light chains at approximately 50 kDa and 25 kDa, while the non-reduced sample contains a predominant intact antibody band near 150 kDa. The electrophoretic profile confirms the integrity and purity of the NCR3LG1 Monoclonal Antibody preparation.

Description

B7-H6 Antibody B7H6/4821 / NCR3LG1 Monoclonal Antibody recognizes B7-H6, an immunoregulatory cell-surface protein encoded by the NCR3LG1 gene. B7-H6 is a member of the B7 family and functions as a ligand for natural cytotoxicity receptor 3 (NCR3), commonly known as NKp30. Binding of B7-H6 to NKp30 provides an activating signal to natural killer (NK) cells and can promote cytotoxic activity and cytokine production against cells expressing the ligand.

B7-H6 is a type I transmembrane glycoprotein containing extracellular immunoglobulin-like domains. These extracellular domains mediate recognition by NKp30, linking expression of NCR3LG1 on a target cell with activation of NK cell effector functions. The B7-H6/NKp30 interaction is therefore an important component of innate immune recognition and has become a useful model for studying how NK cells respond to cellular transformation and stress.

NCR3LG1 has received particular attention in cancer research because B7-H6 expression has been reported in numerous transformed cell types and malignancies while showing more restricted constitutive expression in many normal tissues. This expression pattern can provide NK cells with a mechanism for recognizing potentially abnormal cells. Changes in B7-H6 abundance or accessibility at the cell surface may consequently affect the strength of NKp30-mediated immune recognition and influence susceptibility to NK cell cytotoxicity.

B7-H6 biology can also be regulated beyond its expression at the plasma membrane. Cellular stress and inflammatory signaling can influence NCR3LG1 expression, while release of soluble B7-H6 can alter interactions with NKp30. These mechanisms have made the protein relevant to studies of tumor immune surveillance, immune evasion, inflammatory signaling, and regulation of innate immune responses. The alternative names NCR3LG1, B7H6, and NKp30 ligand reflect the protein's gene designation and its functional relationship with the NKp30 receptor.

A B7-H6 Antibody can be used to investigate this ligand and its role in NK cell-mediated immune recognition. NSJ Bioreagents offers clone B7H6/4821 as a monoclonal reagent for research involving B7-H6 expression and NCR3LG1 biology.

A B7-H6 Antibody provides a monoclonal reagent for investigating NKp30 ligand biology, while an NCR3LG1 Monoclonal Antibody provides gene-based terminology for studies of natural killer cell activation and tumor immune recognition.

For a polyclonal antibody with broader validation targeting the same protein, see our NCR3LG1 Antibody / B7-H6 Polyclonal Antibody.

Application Notes

Optimal dilution of the B7-H6 Antibody B7H6/4821 / NCR3LG1 Monoclonal Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 38-169 from the human protein was used as the immunogen for the B7-H6 Antibody B7H6/4821.

Storage

Store the B7-H6 Antibody B7H6/4821 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

NCR3LG1 antibody, B7H6 antibody, Natural Cytotoxicity Triggering Receptor 3 Ligand 1 antibody, NKp30 Ligand antibody, NCR3 Ligand 1 antibody

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