

LIR-7 Polyclonal Antibody

Catalog # AP73649

Product Information

Application	WB, IHC-P
Primary Accession	Q8N149
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52966

Additional Information

Gene ID	11027
Other Names	LILRA2; ILT1; LIR7; Leukocyte immunoglobulin-like receptor subfamily A member 2; CD85 antigen-like family member H; Immunoglobulin-like transcript 1; ILT-1; Leukocyte immunoglobulin-like receptor 7; LIR-7; CD85h
Dilution	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1/100-1/300. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	LILRA2
Synonyms	ILT1, LIR7
Function	Part of the innate immune responses against microbial infection (PubMed: 12529506 , PubMed: 27572839). Specifically recognizes a set of N-terminally truncated immunoglobulins that are produced via cleavage by proteases from a range of pathogenic bacteria and fungi, including <i>L.pneumophila</i> , <i>M.hyorhinis</i> , <i>S.pneumoniae</i> , <i>S.aureus</i> and <i>C.albicans</i> (PubMed: 27572839). Recognizes epitopes that are in part in the variable region of the immunoglobulin light chains, but requires also the constant region for signaling (PubMed: 27572839). Binds to a subset of cleaved IgM, IgG3 and IgG4 molecules, but does not bind cleaved IgA1 (PubMed: 27572839). Binding of N-terminally truncated immunoglobulins mediates activation of neutrophils (PubMed: 27572839). In monocytes, activation leads to the release of CSF2, CF3, IL6, CXCL8 and CCL3 and down-regulates responses to bacterial lipopolysaccharide (LPS), possibly via

down-regulation of TLR4 expression and reduced signaling via TLR4 (PubMed:[22479404](#)). In eosinophils, activation by ligand binding leads to the release of RNASE2, IL4 and leukotriene C4 (PubMed:[12529506](#)). Does not bind class I MHC antigens (PubMed:[19230061](#)).

Cellular Location

Cell membrane; Single-pass type I membrane protein

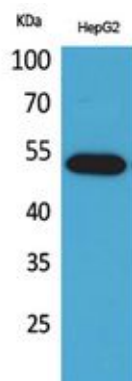
Tissue Location

Detected on the surface of all peripheral blood monocytes, neutrophils, basophils and eosinophils (at protein level) (PubMed:[12529506](#), PubMed:[22479404](#)). Expression levels are very low or not detectable on monocytes, T-cells, B-cells, dendritic cells and natural killer (NK) cells (PubMed:[9548455](#))

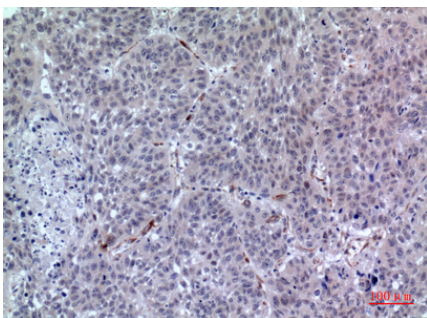
Background

Part of the innate immune responses against microbial infection (PubMed: [12529506](#), PubMed:[27572839](#)). Specifically recognizes a set of N-terminally truncated immunoglobulins that are produced via cleavage by proteases from a range of pathogenic bacteria and fungi, including *L.pneumophila*, *M.hyorhinis*, *S.pneumoniae*, *S.aureus* and *C.albicans* (PubMed:[27572839](#)). Recognizes epitopes that are in part in the variable region of the immunoglobulin light chains, but requires also the constant region for signaling (PubMed:[27572839](#)). Binds to a subset of cleaved IgM, IgG3 and IgG4 molecules, but does not bind cleaved IgA1 (PubMed:[27572839](#)). Binding of N-terminally truncated immunoglobulins mediates activation of neutrophils (PubMed:[27572839](#)). In monocytes, activation leads to the release of CSF2, CF3, IL6, CXCL8 and CCL3 and down-regulates responses to bacterial lipopolysaccharide (LPS), possibly via down-regulation of TLR4 expression and reduced signaling via TLR4 (PubMed:[22479404](#)). In eosinophils, activation by ligand binding leads to the release of RNASE2, IL4 and leukotriene C4 (PubMed:[12529506](#)). Does not bind class I MHC antigens (PubMed:[19230061](#)).

Images

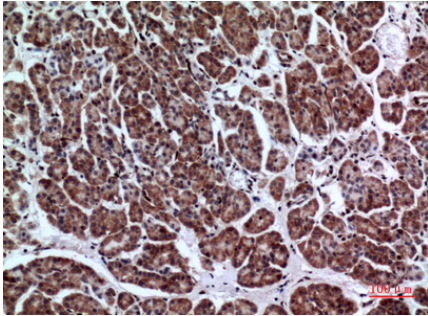
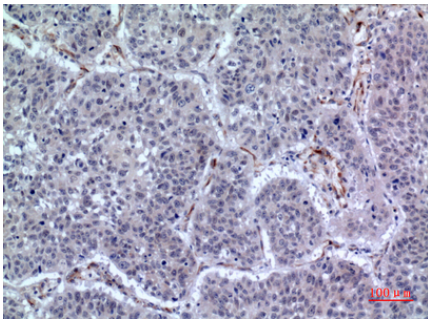


Western Blot analysis of HepG2 cells using LIR-7 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

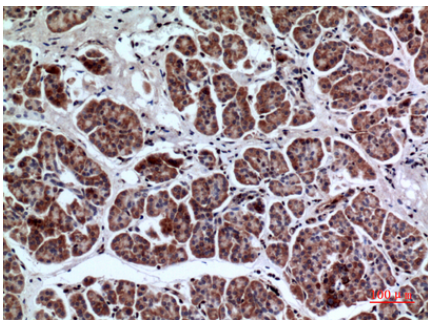


Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100

Immunohistochemical analysis of paraffin-embedded human-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-pancreas, antibody was diluted at 1:100

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.