

LAIR-1 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	40-60	Rabbit	#Q6GTX8	3903

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

LAIR-1 Antibody recognizes endogenous levels of total LAIR-1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyterminus of human LAIR-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

LAIR-1 is an inhibitory receptor that belongs to the Immunoglobulin superfamily. It has one extracellular Ig-like domain and an intracellular C-terminus with two ITIM (immunoreceptor tyrosine-based inhibitory motif) domains. It is found on peripheral mononuclear cells, including NK, T, and B cells, and is thought to play a negative regulatory role on the cytolytic function of these cells through signaling through collagen ligation (1). LAIR1 has been noted to be upregulated in renal cell carcinoma (2), and may play a role in expansion of Th17 cell populations in collagen-rich environments, such as in graft rejection tissue (3).

Background References

1. Meyaard, L. (2008) *J Leukoc Biol* 83, 799-803.
2. Jingushi, K. et al. (2019) *Oncol Rep* 41, 1293-303.
3. Agashe, V.V. et al. (2018) *J Immunol* 201, 772-81.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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