

## DESCRIPTION

<b>Cell Line Name</b>	Human LILRA6-CHO-K1 stable cell line
<b>Catalog Number</b>	C3028
<b>Gene Sequence</b>	NM_001360167.1 (Full-length cDNA)
<b>Host Cell</b>	CHO-K1 (Adherent cells)
<b>Quantity</b>	Two vials of frozen cells (~1x10 <sup>6</sup> per vial)
<b>Culture Medium</b>	DMEM with 10% FBS and 4 µg/mL puromycin
<b>Freezing Medium</b>	90% FBS and 10% DMSO
<b>Storage</b>	Liquid nitrogen

## BACKGROUND

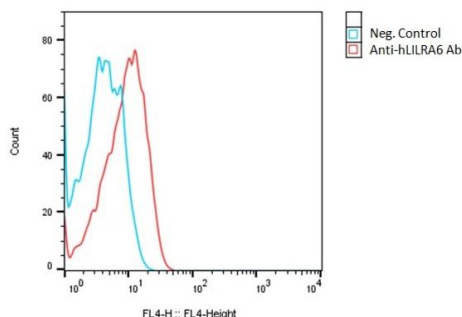
LILRA6 (Leukocyte immunoglobulin-like receptor A6) is a member of the LILR (Leukocyte Immunoglobulin-Like Receptor) family of proteins. It is a type I transmembrane glycoprotein and has an extracellular domain composed of two Ig-like domains followed by a transmembrane region and a cytoplasmic tail. LILRA6 is primarily expressed on the surface of immune cells such as monocytes, macrophages, dendritic cells, and natural killer cells. It contains both activating and inhibitory domains and plays a crucial role in regulating immune responses and inflammation. Studies have shown that LILRA6 is involved in the pathogenesis of various diseases, including cancer. LILRA6 expression is upregulated in some cancers, such as glioblastoma, prostate cancer, and colorectal cancer, and is associated with poor prognosis. LILRA6 may contribute to tumor growth, invasion, and metastasis by modulating the activity of immune cells within the tumor microenvironment. Given its role in immune regulation and its expression in some cancers, LILRA6 has emerged as a potential therapeutic target for cancer immunotherapy. Blocking LILRA6 signaling may enhance the antitumor activity of immune cells and improve treatment outcomes.

## THAWING AND CULTURING

- Remove the cell vial from liquid nitrogen tank and thaw cells quickly in a 37°C water bath
- Transfer cells to a 15 ml conical tube containing 4 ml of culture medium
- Centrifuge the tube at 200x g for 5 min and discard the supernatant
- Resuspend the cell pellet with 7 ml of culture medium and transfer the cells to a 25 ml cell culture flask
- Incubate the T25 flask in a CO2 incubator with 5% CO2 at 37°C.
- Split cells twice a week or as needed.

## DATA

Detection of human LILRA6 expression on human LILRA6-CHO-K1 cells using a APC-anti-human LILRA6 antibody (R&D Systems #FAB8656A)



## REFERENCES

Truong AD, Rengaraj D, Hong Y, Tran HTT, Dang HV, Nguyen VK, Lillehoj HS, Hong YH. Leukocyte Immunoglobulin-Like Receptors A2 and A6 are Expressed in Avian Macrophages and Modulate Cytokine Production by Activating Multiple Signaling Pathways. *Int J Mol Sci.* 2018 Sep 11;19(9):2710. doi: 10.3390/ijms19092710. PMID: 30208630; PMCID: PMC6163679.

Hirayasu K, Arase H. Functional and genetic diversity of leukocyte immunoglobulin-like receptor and implication for disease associations. *J Hum Genet.* 2015 Nov;60(11):703-8. doi: 10.1038/jhg.2015.64. Epub 2015 Jun 4. PMID: 26040207.

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