

Active Recombinant Mouse Lila6 protein, Fc-tagged

Cat. No. Lila6-204M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Lila6(Gly24-Asn629) fused with Fc region of Mouse IgG2a at C-terminal was expressed in NS0.
Species	Mouse
Source	Mammalian Cells
ProteinLength	24-629 a.a.
Description	LILRA6, also known as ILT8, CD85b, and PIR-A3 (in mouse), is a transmembrane molecule that belongs to the LILR family of immune regulatory proteins. LILRA family members augment immune responses, while LILRB proteins inhibit signaling events. The extracellular region (ECD) of mouse LILRA6/PIR-A3 contains 6 immunoglobulin-like domains in its extracellular region, although the human protein contains four Ig-like domains. Within common regions of their ECDs, human LILRA6 shares 53% amino acid sequence identity with mouse PIR-A3. It contains a positively charged arginine residue in the transmembrane segment which mediates association with the signaling protein Fc epsilon RI gamma. LILRA6 is primarily expressed on monocytes. Its gene copy number is highly variable and is positively associated with the development of atopic dermatitis. Allelic polymorphisms are differentially able to mediate immune cell detection of necrotic cells. R&D Systems in-house testing indicates that LILRA6 binds to Angiopoietin-like 7, consistent with the demonstrated functional interactions between other members of these protein families.

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Predicted N Terminal	Gly24
Form	Lyophilized from a 0.2 µm filtered solution in MES and NaCl.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human Angiopoietin-like Protein 7/ANGPTL7 is coated at 2 µg/mL, Recombinant Mouse LILRA6/CD85b Fc Chimera binds with an ED50 = 5-30 ng/mL.
Molecular Mass	Predicted Molecular Mass: 95 kDa SDS-PAGE: 97-118 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 250 µg/mL in PBS.

GENE INFORMATION

Gene Name	Lilra6 leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6 [<i>Mus musculus</i>]
Official Symbol	Lilra6
Synonyms	7M1; Pira3

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