

LILRB4/CD85k/ILT3 Protein, Human (237a.a, HEK293, Fc)

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| Cat. No.: | HY-P76441 |
| Synonyms: | Leukocyte immunoglobulin-like receptor subfamily B member 4; CD85k; Liltrb4; Gp49b |
| Species: | Human |
| Source: | HEK293 |
| Accession: | NP_001265356.2 (M21-H257) |
| Gene ID: | 11006 |
| Molecular Weight: | 60-75 kDa |

PROPERTIES

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| AA Sequence | <p> M Q A G P L P K P T L W A E P G S V I S W G N S V T I W C Q G T L E A R E Y R L D K E E S P A P W D R Q N P L E P K N K A R F S I P S M T E D Y A G R Y R C Y Y R S P V G W S Q P S D P L E L V M T G A Y S K P T L S A L P S P L V T S G K S V T L L C Q S R S P M D T F L L I K E R A A H P L L H L R S E H G A Q Q H Q A E F P M S P V T S V H G G T Y R C F S S H G F S H Y L L S H P S D P L E L I V S G S L E G P R P S P T R S V S T A A G P E D Q P L M P T G S V P H S G L R R H </p> |
| Biological Activity | <p>1. Immobilized Human ILT3, at 1 µg/mL (100 µL/well) can bind Anti-ILT3 Antibody. The ED₅₀ is 14.79 ng/mL, corresponding to a specific activity is 6.76×10⁴ U/mg.</p> <p>2. Immobilized Human LILRB4 at 1 µg/mL (100 µL/well) can bind Anti-LILRB4 Antibody. The ED₅₀ for this effect is 9.525 ng/mL.</p> <p>3. Immobilized Human LILRB4, hFc Tag at 0.2 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-LILRB4 Antibody, hFc Tag with the EC₅₀ of ≤22.3 ng/mL determined by ELISA.</p> |
| Appearance | Lyophilized powder |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Endotoxin Level | <1 EU/µg, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

Background

LILRB4, a member of the leukocyte immunoglobulin-like receptor (LIR) family, is situated in a gene cluster on chromosomal region 19q13.4. Falling within the subfamily B class of LIR receptors, it contains multiple extracellular immunoglobulin domains, a transmembrane domain, and cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). This receptor, expressed on immune cells, interacts with MHC class I molecules on antigen-presenting cells, triggering a negative signal that inhibits immune response stimulation. Additionally, LILRB4 plays a role in antigen capture and presentation, potentially influencing inflammatory responses and cytotoxicity to modulate the immune response and prevent autoreactivity. The gene exhibits broad expression across various tissues, including the appendix (RPKM 9.2), lymph nodes (RPKM 8.1), and 17 other tissues. Multiple transcript variants encoding diverse isoforms have been identified for this gene.

Caution: Product has not been fully validated for medical applications. For research use only.

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