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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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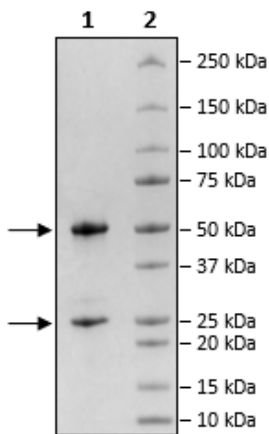


Product Information

Description:	This anti-CD125 (IL-5Ra) antibody is a purified, recombinant humanized monoclonal antibody that neutralizes the human interleukin-5 receptor (IL-5Ra), also known as CD125. This antibody has been tested in a binding assay. This antibody is similar to Benralizumab.
Background:	IL-5 (interleukin-5) is a pro-inflammatory protein that functions as an intermediary cytokine in the TH2 (T helper 2) cells response in asthma and other eosinophilic allergic diseases. IL-5 functions by promoting eosinophil maturation, activation, and migration into target tissues. It binds to the IL-5 specific cell surface receptor IL-5Ra (IL-5 receptor alpha) and further recruits the common beta chain receptor (CSF2RB) to initiate downstream signaling through JAK1/2 (Janus kinase 1/2) and STAT5. Activated eosinophils contribute to airway damage through degranulation, resulting in the release of pro-inflammatory cytokines and enzymatic mediators contributing to local inflammation and tissue damage. IL-5 signaling plays a critical role in allergic and eosinophilic asthma subtypes and has been an active area for drug discovery. Antibodies targeting both IL-5 ligand and CD125 have been FDA (Food and Drug Administration) approved for the treatment of severe eosinophilic asthma and other eosinophilic conditions. These antibodies function by neutralizing IL-5-mediated signaling in eosinophils. Additionally, IL-5Ra targeting antibodies and CAR (chimeric antigen receptor)-T cells can induce immune-mediated cytotoxicity of IL-5Ra-expressing cells, including eosinophils through ADCC (antibody-dependent cellular cytotoxicity) and CAR-T cell mediated killing respectively.
Species:	Human
Isotype:	IgG1
Clonality:	Monoclonal
Concentration:	1.98 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	Heavy chain: 50 kDa + glycans; Light chain: 24 kDa
Glycosylation:	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
Endotoxin Level:	6.93 EU/mg
Stability:	At least 12 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	Assay was done according to IL-5: CD125 (IL-5RA) [Biotinylated] Inhibitor Screening Chemiluminescence Assay Kit (#82964).
Applications:	Useful for binding assays.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



IL-5:IL-5Ra[B] Binding Activity

