

Rabbit Anti-CD125/IL5RA [MD425R]: RM0225, RM0225RTU7

Intended Use: For Research Use Only

Description: CD125 is a cell surface protein that binds interleukin-5 (IL-5), a key signaling protein for immune responses. Expressed mainly on eosinophils, basophils, mast cells, and certain B cells. It helps control how these immune cells grow, activate, and survive, making it an important target for allergic and inflammatory diseases. In unstimulated conditions, interacts constitutively with JAK2. Heterodimeric receptor activation leads to JAK2 stimulation and subsequent activation of the JAK-STAT pathway. Blocking the IL-5 receptor with targeted neutralizing antibodies helps treat severe eosinophilic asthma and other high-eosinophil conditions by prompting immune-mediated cell destruction.

Specifications:

Clone:	MD425R
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Recombinant human IL5RA protein
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC
Package:	

Description	Catalog No.	Size
CD125/IL5RA [MD425R] Concentrated	RM0225	1 ml
CD125/IL5RA [MD425R] Prediluted	RM0225RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Eosinophils, basophils
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

1. Interleukin-5 Receptor alpha (CD125) Expression on Human Blood and Lung Neutrophils. Monica G Lawrence, et al. Ann Allergy Asthma Immunol. Aug 12;128(1):53–60.e3, 2021. doi: 10.1016/j.anai.2021.08.004.
2. Immunohistochemical assessment of CD25 is equally sensitive and diagnostic in mastocytosis compared to flow cytometry. C Baumgartner, et al. Eur J Clin Invest. May;38(5):326-35. doi: 10.1111/j.1365-2362.2008.
3. Immunohistochemical analysis of an ectopic endometriosis in the uterine round ligament. Shinichi Terada, et al. Diagnostic Pathology. 09 September 2006.
4. CD25 Expression Is Correlated with Histological Grade and Response to Denileukin Difitox in Cutaneous T-Cell Lymphoma. Rakhshandra Talpur, et al. Journal of Investigative Dermatology. March 2006.

Doc. 100-RM0225
Rev. A