

Mouse Anti-CD25/IL2 Receptor alpha [IL2RA/2395]: MC0395, MC0395RTU7

Intended Use: For Research Use Only

Description: CD25, or interleukin 2 (IL2) receptor alpha (IL2RA), and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (CD25) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble CD25 has been isolated and determined to result from extracellular proteolysis. CD25 (the p55 chain of the interleukin-2 receptor) is a marker of activation for a number of cell types, including T cells, B cells, and macrophages. It also appears to be a reliable immunohistochemical marker for the discrimination of neoplastic from normal/reactive mast cells, with potential as a diagnostic tool in systemic mastocytosis. CD25 is also expressed on hairy cell leukemia.

Specifications:

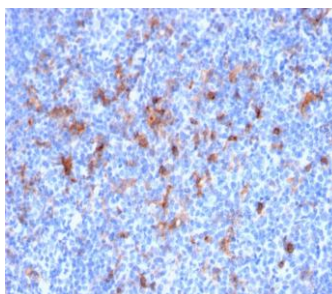
Clone: IL2RA/2395
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Immunogen: Recombinant fragment around aa 42-183 of human IL2RA protein
 Localization: Membrane, cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA, and ≤ 0.09% sodium azide (NaN₃).
 Storage: Store at 2°- 8°C
 Applications: IHC
 Package:

Description	Catalog No.	Size
CD25/IL2 Receptor alpha Concentrated	MC0395	1 ml
CD25/IL2 Receptor alpha Prediluted	MC0395RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Tonsil, mastocytosis
 Concentrated Dilution: 25-100
 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.



FFPE human tonsil stained with anti-CD25 using DAB

References:

1. INF α -2b inhibitory effects on CD4(+)CD25(+)FOXP3(+) regulatory T cells in the tumor microenvironment of C57BL/6 J mice with melanoma xenografts. Yu Y, et al. BMC Cancer. Jul 7;16:397, 2016.
2. Expression of coinhibitory PD-L1 on CD4⁺CD25⁺FOXP3⁺ regulatory T cells is elevated in patients with acute coronary syndrome. Li SH, et al. Coron Artery Dis. Nov;26(7):598-603, 2015.
3. Does the aberrant expression of CD2 and CD25 by skin mast cells truly correlate with systemic involvement in patients presenting with mastocytosis in the skin? Lange M, et al. Int Arch Allergy Immunol. 2014;165(2):104-10, 2014.