

Rabbit Anti-CRLF2/TSLPR Polyclonal: RC0182

Intended Use: For Research Use Only

Description: The guanine-nucleotide binding protein (K-Ras, H-Ras, and N-Ras) is 21 kDa membrane-associated GTPase which cycles between active (GTP-bound) and inactive (GDP-bound) forms, regulates cell proliferation, differentiation, and survival. Receptor tyrosine kinases and G protein-coupled receptors activate Ras, which then stimulates the Raf-MEK-MAPK pathway. GTPase-activating proteins (GAP) normally facilitate the inactivation of Ras. However, studies show that in 30% of human cancers, point mutations in Ras prevent the GAP-mediated inhibition of this pathway. The most common oncogenic Ras mutation is Gly12 to Asp12 (G12D) – Ras missense mutations at the codon 12, which results in decreased GTPase activity and constitutive signaling, possibly by increasing the overall rigidity of the protein.

Specifications:

Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Localization: Membrane, secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ELISA, IF
 Package:

Description	Catalog No.	Size
CRLF2/TSLPR Concentrated	RC0182	1 ml

IHC Procedure*:

Positive Control Tissue: Human liver, kidney
 Concentrated Dilution: 10-100
 Pretreatment: Citrate pH6.0 or EDTA pH8.0 15 minutes using Pressure Cooker, or 30-60 minutes using 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. Potential efficacy and prognosis of silencing the CRLF2-mediated AKT/mTOR pathway in pediatric acute B-cell lymphoblastic leukemia. Jiang M, et al. *Oncol Rep.* Feb;41(2):885-894, 2019.
2. Myeloid dendritic cells stimulated by thymic stromal lymphopoietin promote Th2 immune responses and the pathogenesis of oral lichen planus. Yamauchi M, et al. *PLoS One* 12:e0173017, 2017.
3. Thymic stromal lymphopoietin-induced human asthmatic airway epithelial cell proliferation through an IL-13-dependent pathway. Semlali A, et al. *J Allergy Clin Immunol.* Apr;125(4):844-50, 2010.
4. Thymic stromal lymphopoietin receptor-mediated IL-6 and CC/CXC chemokines expression in human airway smooth muscle cells: role of MAPKs (ERK1/2, p38, and JNK) and STAT3 pathways. Shan L, et al. *J Immunol.* Jun 15;184(12):7134-43, 2010.

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