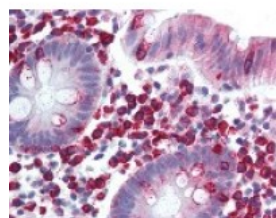




LTK Antibody

CATALOG NUMBER: 49-301



Immunohistochemistry staining of LTK in colon, lamina propria plasma cells using LTK Antibody.

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	IHC, WB
APPLICATIONS:	LTK antibody can be used in ELISA, Western Blot, immunohistochemistry starting at 5 ug/mL, and immunofluorescence starting at 10 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The amino acid sequence used as immunogen has 100% identity in human isoforms 1 and 2, and 81% homologous in mouse isoforms A, B, C, and D, and rat. LTK is an 864 amino acid protein with an approximate molecular weight of 94 kD.
IMMUNOGEN:	LTK antibody was raised against amino acids 800 - 864 of LTK (Human).
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	Protein G Column
PHYSICAL STATE:	Liquid
BUFFER:	PBS, 0.2% gelatin, 0.05% sodium azide.
STORAGE CONDITIONS:	LTK antibody can be stored short term 4 °C. For long term storage aliquot and store at -20 °C. As with all antibodies avoid freeze/thaw cycles.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	LTK, Leukocyte tyrosine kinase, Protein tyrosine kinase 1, TYK1
ACCESSION NO.:	P29376
PROTEIN GI NO.:	143811416
OFFICIAL SYMBOL:	LTK

GENE ID: 4058

Background

BACKGROUND: Leukocyte tyrosine kinase (LTK) is a receptor-type protein tyrosine kinase, belonging to the insulin receptor superfamily, and is mainly expressed in B lymphocyte precursors and neuronal tissues. LTK utilizes insulin receptor substrate-1 (IRS-1) and Shc as major two substrates and possesses two NPXY motifs for them separately, tyrosine 485 of one NPXY motif at the juxtamembrane domain for IRS-1 and tyrosine 862 of another NPXY motif at the carboxyl-terminal domain for Shc. It has also been shown that p85 subunit of PI3 kinase directly binds to tyrosine 753 of LTK, which is located within a YXXM motif. Tyrosine 485 and 753 are responsible for IRS-1 and PI3K mediated survival effects of LTK, respectively.

FOR RESEARCH USE ONLY

December 13, 2016