

Anti-LTK Antibody

Catalog Number: PA1990

About LTK

LTK (Leukocyte Tyrosine Kinase), also known as TYK1, is an enzyme that in humans is encoded by the LTK gene. The protein encoded by this gene is a member of the ALK/LTK receptor family of receptor tyrosine kinases (RTKs) whose ligand is unknown. Toyoshima et al. (1993) cloned a set of cDNAs representing differently spliced human LTK mRNAs. Liao et al. (1996) found that the mouse Ltk gene is closely linked to the Tyro3 gene which maps to mouse chromosome 2. Thus, the LTK gene produces not only the putative receptor tyrosine kinase for an unknown ligand but also multiple protein products that may have different functions.

Overview

Product Name	Anti-LTK Antibody
Reactive Species	Human
Description	Boster Bio Anti-LTK Antibody catalog # PA1990. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P29376

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human LTK.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human</p>

Anti-LTK Antibody (PA1990) Images

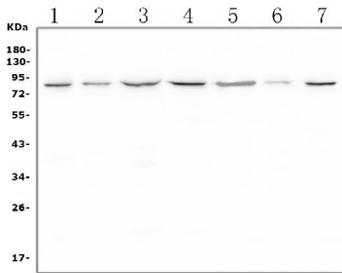


Figure 1. Western blot analysis of LTK using anti-LTK antibody (PA1990).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

- Lane 1: human THP-1 whole cell lysates
- Lane 2: human Caco-2 whole cell lysates
- Lane 3: human K562 whole cell lysates
- Lane 4: human Jurkat whole cell lysates
- Lane 5: human MDA-MB-453 whole cell lysates
- Lane 6: human U2OS whole cell lysates
- Lane 7: human PC-3 whole cell lysates

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LTK antigen affinity purified polyclonal antibody (Catalog # PA1990) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LTK at approximately 85-91kD. The expected band size for LTK is at 91kD.

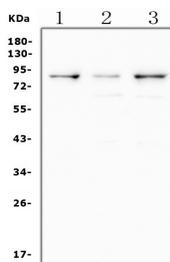


Figure 2. Western blot analysis of LTK using anti-LTK antibody (PA1990).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

- Lane 1: rat thymus tissue lysates
- Lane 2: rat brain tissue lysates
- Lane 3: mouse brain tissue lysates

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-LTK antigen affinity purified polyclonal antibody (Catalog # PA1990) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for LTK at approximately 85-91kD. The expected band size for LTK is at 91kD.

Submit a product review to [Biocompare.com](https://www.biocompare.com)

Submit a review of this product to [Biocompare.com](https://www.biocompare.com) to receive a \$20 Amazon.com giftcard! Your



reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-LTK Antibody