

Product datasheet

Anti-TYK2 antibody ab57678

KO VALIDATED

[3 Images](#)

Overview

Product name	Anti-TYK2 antibody
Description	Mouse monoclonal to TYK2
Host species	Mouse
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment: PVCHLRLLAQ AEGEPCYIRD SGVAPTDPGP ESAAGPPTHE VLVTGTGGIQ WWPVEEEVNK EEGSSGSSGR NPQASLFGKK AKAHKAVGQP ADRPREPLWA , corresponding to amino acids 276-375 of Human TYK2

[Run BLAST with ExPASy](#) [Run BLAST with NCBI](#)

General notes Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody [ab223733](#) as a replacement.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab57678** in the following tested applications.

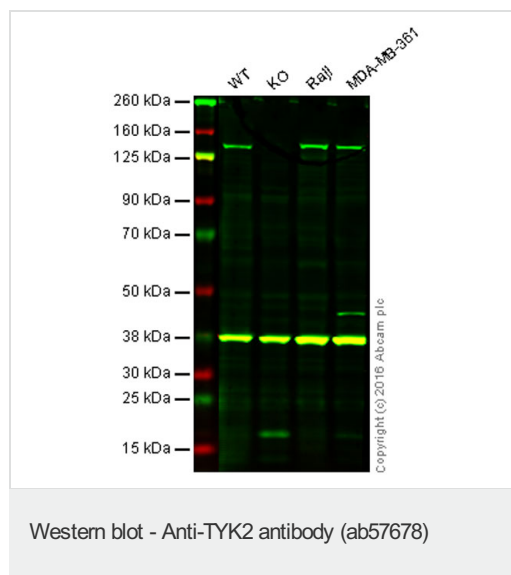
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 134 kDa.
IHC-P		Use a concentration of 3 µg/ml.

Target

Function	Probably involved in intracellular signal transduction by being involved in the initiation of type I IFN signaling. Phosphorylates the interferon-alpha/beta receptor alpha chain.
Tissue specificity	Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.
Involvement in disease	Defects in TYK2 are the cause of protein-tyrosine kinase 2 deficiency (TYK2 deficiency) [MIM:611521]; also known as autosomal recessive hyper-IgE syndrome (HIES) with atypical mycobacteriosis. TYK2 deficiency consists of a primary immunodeficiency characterized by recurrent skin abscesses, pneumonia, and highly elevated serum IgE.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. Contains 1 SH2 domain.
Domain	The FERM domain mediates interaction with JAKMIP1.

Images



Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: TYK2 knockout HAP1 cell lysate (20 µg)

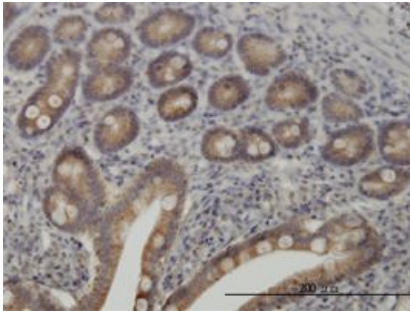
Lane 3: Raji cell lysate (20 µg)

Lane 4: MDA-MB-361 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab57678 observed at 135 kDa. Red - loading control, ab181602, observed at 37 kDa.

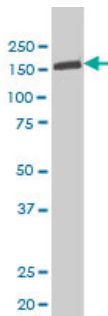
ab57678 was shown to specifically react with TYK2 when TYK2 knockout samples were used. Wild-type and ProteinX knockout samples were subjected to SDS-PAGE. ab57678 and ab181602 (loading control to GAPDH) were diluted 1 µg/mL and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (ab216772) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (ab216777)

secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TYK2 antibody (ab57678)

TYK2 antibody (ab57678) used in immunohistochemistry at 3ug/ml on formalin fixed and paraffin embedded human lymphoma.



Western blot - Anti-TYK2 antibody (ab57678)

TYK2 antibody (ab57678) at 1ug/lane + HeLa cell lysate at 25ug/lane.

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