PTPN22 polyclonal antibody

Catalog: BS61733 Host: Rabbit Reactivity: Human,Mouse,Rat

BackGround:

The protein tyrosine phosphatase PTPN22 (PTP22, LYP, PEP, formerly PTPN8) is a genetic variant that confers risk of developing diverse human autoimmune diseases such as type 1 diabetes and rheumatoid arthritis. The minor allele of a missense SNP in PTPN22 encodes a hematopoietic-specific protein tyrosine phosphatase also known as “Lyp”. The risk allele is present in about 17% of Caucasian individuals from the general population and in approximately 28% of Caucasian individuals with rheumatoid arthritis; it is thought to disrupt the P1 proline-rich motif that is important for interaction with the Src homology-3 (SH3) domain of CSK (cytoplasmic tyrosine kinase), potentially altering the normal functions of these proteins as negative regulators of T cell activation. The interaction between CSK and PTPN22 is highly specific and it is speculated that PTPN22 may be an effector and/or regulator of CSK in T cells and other hematopoietic cells.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.3.

Molecular Weight:

~ 98 kDa

Swiss-Prot:

Q9Y2R2

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

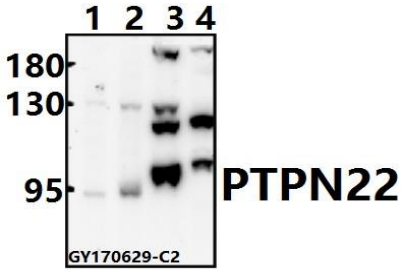
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

PTPN22 polyclonal antibody detects endogenous levels of PTPN22 protein.

DATA:



Western blot (WB) analysis of PTPN22 polyclonal antibody at 1:500 dilution

Lane1:Jurkat whole cell lysate(40ug)

Lane2:K562 whole cell lysate(40ug)

Lane3:C6 whole cell lysate(40ug)

Lane4:BV2 whole cell lysate(40ug)

Note:

For research use only, not for use in diagnostic procedure.

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