

## 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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 98 kDa

### Swiss-Prot:

Q9Y2R2

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C 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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