bs-4974R **[Primary Antibody]**

Glucose 6 Phosphate Dehydrogenase Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2539 **SWISS:** P11413

Target: Glucose 6 Phosphate Dehydrogenase

Immunogen: KLH conjugated synthetic peptide derived from human Glucose 6 Phosphate Dehydrogenase: 351-450/515.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Defects in G6PD are the cause of chronic non-spherocytic hemolytic anemia (CNSHA) . Deficiency of G6PD is associated with hemolytic anemia in two different situations. First, in areas in which malaria has been endemic, G6PD-deficiency alleles have reached high frequencies (1% to 50%) and deficient individuals, though essentially asymptomatic in the steady state, have a high risk of acute hemolytic attacks. Secondly, sporadic cases of G6PD deficiency occur at a very low frequencies, and they usually present a more severe phenotype. Several types of CNSHA are recognized. Class-I variants are associated with severe NSHA; class-II have an activity <10% of normal; class-III have an activity of 10% to 60% of normal; class-IV have near normal activity.

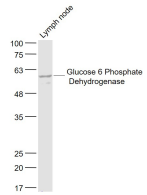
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Sheep, Cow, Horse)

Predicted MW.: 57 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lymph node (Mouse) Lysate at 40 ug
Primary: Anti- Glucose 6 Phosphate Dehydrogenase (bs-4974R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD
Observed band size: 57 kD

SELECTED CITATIONS

- **[IF=4.4]** Defne Engur. et al. Supplemental oxygen alters the pentose phosphate pathway in the developing mouse brain through SIRT signaling. NEUROCHEM INT. 2024 Nov;180:105886 IHC,WB ;Mouse. 39437895