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## Glucose 6 Phosphate Dehydrogenase Rabbit pAb

Catalog Number: bs-4974R

Target Protein: Glucose 6 Phosphate Dehydrogenase

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000)

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

Predicted MW: 57 kDa

Entrez Gene: 2539

Swiss Prot: P11413

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

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

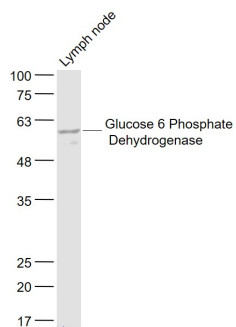
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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.

### VALIDATION IMAGES

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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

## PRODUCT SPECIFIC PUBLICATIONS

**[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