

**bs-1537R****[ Primary Antibody ]****NADPH Rabbit pAb**

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**— DATASHEET —****Host:** Rabbit**Isotype:** IgG**Clonality:** Polyclonal**Target:** NADPH**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:** NADPH (nicotinamide adenine dinucleotide phosphate) includes of Alpha-NADPH and Beta-NADPH. Beta-NADPH has activity only. Beta-Nicotinamide adenine dinucleotide 2'-phosphate reduced tetrasodium salt or triphosphopyridine nucleotide reduced tetrasodium salt, also known as Coenzyme II.  $\beta$ -Nicotinamide adenine dinucleotide 2'-phosphate (NADP<sup>+</sup>) and  $\beta$ -Nicotinamide adenine dinucleotide 2'-phosphate, reduced (NADPH) comprise a coenzyme redox pair (NADP<sup>+</sup>:NADPH) involved in a wide range of enzyme catalyzed oxidation reduction reactions. The NADP<sup>+</sup>/NADPH redox pair facilitates electron transfer in anabolic reactions such as lipid and cholesterol biosynthesis and fatty acyl chain elongation. The NADP<sup>+</sup>/NADPH redox pair is used in a variety of antioxidation mechanism where it protects against reactive oxidation species accumulation. NADPH is generated in vivo by the pentose phosphate pathway (PPP).

**Applications:** ELISA (1:5000-10000)**Reactivity:** NADPH**Predicted MW.:** 0.833 kDa