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Product datasheet for TA327067

Glucose 6 Phosphate Dehydrogenase (G6PD) Rabbit Polyclonal Antibody

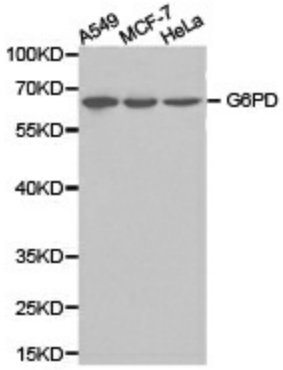
Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human G6PD
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glucose-6-phosphate dehydrogenase
Database Link:	NP_000393 Entrez Gene 24377 RatEntrez Gene 2539 Human P11413
Background:	Glucose-6-phosphate dehydrogenase (G6PD) catalyses the first and rate-limiting step of the pentose phosphate pathway . The NADPH generated from this reaction is essential to protect cells from oxidative stress . Recent studies have shown that p53 interacts with G6PD and inhibits its activity, therefore suppressing glucose consumption through the pentose phosphate pathway . In cancer cells with p53 mutations, the increased glucose consumption is directed towards increased biosynthesis, which is critical for cancer cell proliferation.
Synonyms:	G6PD1
Protein Families:	Druggable Genome

View online »

Protein Pathways: Glutathione metabolism, Metabolic pathways, Pentose phosphate pathway

Product images:



Western blot analysis of extracts of various cell lines, using G6PD antibody.