



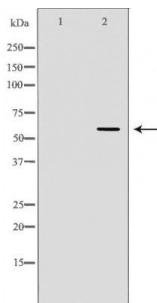
#24321

Catalog Number: 24321-1, 24321-2**Amount:** 50µg/50µl, 100µg/100µl**Swiss-Prot No. :** P11413**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.**Storage/Stability:** Store at -20°C/1 year**Immunogen:** The antiserum was produced against synthesized peptide derived from Human G6PD**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.**Specificity/Sensitivity:** G6PD Antibody detects endogenous levels of total G6PD**Reactivity:** Human, Mouse, Rat**Applications:**

Predicted MW: 59kd

WB: 1:500-2000

IHC: 1:50-200



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

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.