
Product Information

Size:

100ul(100ug)

Reactivity:

Human, Mouse, Rat

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:2000,
IHC:1:50-1:200

Protein 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.

Gene ID:

G6PD

Uniprot

P11413

Synonyms:

G6PD; G6PD1

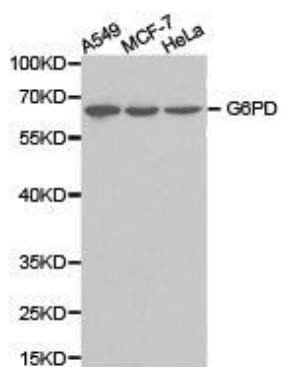
Immunogen:

Recombinant protein of human G6PD.

Storage:

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Product Images



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