MONOCLONAL ANTIBODY



## **Anti-Glutathione Reductase (2B3)**

**Background :** Glutathione reductase (GR) is a member of pyridine nucleotide-disulfide oxidoreductases, which includes the closely related enzymes thioredoxin reductase, lipoamide dehydrogenase, trypanothione reductase and mercuric ion reductase. GR is cytoplasmic flavoenzyme widely а distributed in aerobic organisms. The dimeric protein is composed of two identical subunits, each containing 1 FAD and 1 redox-active disulfide/dithiol as components of the catalytic apparatus. It plays a role in maintaining glutathione (GSH) in its reduced form by catalyzing the reduction of glutathione disulfide (GSSG) (1):

GSSG + NADPH + H<sup>+</sup>  $\Leftrightarrow$  2GSH + NADP<sup>+</sup> In most eukaryotic cells, GR maintains the ratio of [GSH]/[GSSG] elevated, and participates in several vital functions such as the detoxification of reactive oxygen species as well as protein and DNA biosynthesis (2). **Immunogen :** Recombinant human protein purified from *E.coli* 

Host : Mouse

Clone number : 2B3

**Isotype :** IgG1, k

**Size :** 100ul

**Compostion :** PBS containing 50% glycerol

## Positive control : HeLa cell lysates

**Storage :** Store for 1 year at -20°C from date of shipment

Human +	Mouse -	Rat -
M.W.(ki	Da) 1 2	
175	-	
83	-	
62 47.5	ACCOUNTS ADDRESS	4
32.5		
25		
IMMUNOPRECIPITA	TION ANALYSIS of	HeLa cell lysate

## **Applications :**

ELISA

Immunoprecipitation (1-2u1/400ul lysates)

## **Background Reference :**

- 1) Carlberg, I. and Mannervik, B. (1985) J. Biol. Chem. 261: 1629-1635.
- 2) Picaud, T. and Desbois, A. (2002) J. Biol. Chem. 277: 31715-31721.

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Gentaur Molecular Products Voortstraat 49 1910 Kampenhout, Belgium http://www.gentaur-worldwide.com