

CoraLite®594-conjugated PGD Monoclonal antibody

Catalog Number: **CL594-67916**

Basic Information

Catalog Number: CL594-67916	GenBank Accession Number: BC000368	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 5226	CloneNo.: 2A10G4
Source: Mouse	UNIPROT ID: P52209	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: phosphogluconate dehydrogenase	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
Immunogen Catalog Number: AG6871	Calculated MW: 53 kDa	
	Observed MW: 53 kDa, 45 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : HepG2 cells,
Species Specificity: Human	

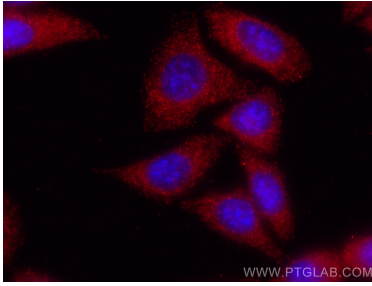
Background Information

PGD, also named as PGDH, belongs to the 6-phosphogluconate dehydrogenase family. PGD catalyses the oxidative decarboxylation of 6-phosphogluconate to ribulose 5-phosphate in the context of the oxidative part of the pentose phosphate pathway. PGD is important for the production of NADPH, which is necessary for reductive biosynthesis, such as the formation of lipids and nucleotides, and the activity of enzymes involved in maintaining cell integrity, in combatting oxidative stress and in the first line of immunological defence. (PMID: 35234135)

Storage

Storage:
Store at -20°C. Avoid exposure to light.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using CoraLite®594 PGD antibody (CL594-67916, Clone: 2A10G4) at dilution of 1:200.