

Product datasheet for **CF501257**

H6PD Mouse Monoclonal Antibody [Clone ID: OTI2A7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2A7
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:250~500, IHC 1:50, IF 1:100, FLOW 1:100
Reactivity:	Human, Monkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human H6PD (NP_004276) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88.7 kDa
Gene Name:	hexose-6-phosphate dehydrogenase/glucose 1-dehydrogenase
Database Link:	NP_004276 Entrez Gene 710107 Monkey Entrez Gene 9563 Human O95479



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Background:

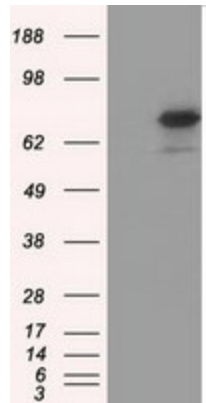
There are 2 forms of glucose-6-phosphate dehydrogenase. G form is X-linked and H form, encoded by this gene, is autosomally linked. This H form shows activity with other hexose-6-phosphates, especially galactose-6-phosphate, whereas the G form is specific for glucose-6-phosphate. Both forms are present in most tissues, but H form is not found in red cells.

Synonyms:

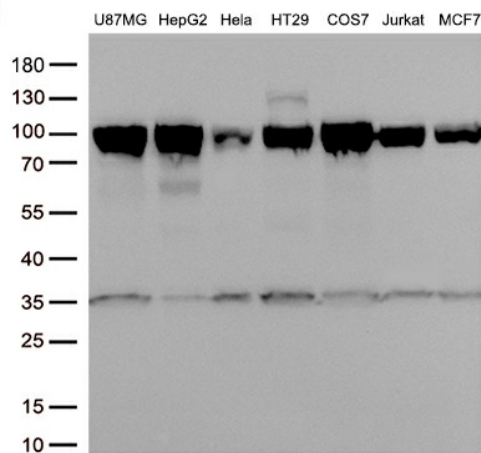
CORTRD1; G6PDH; GDH

Protein Pathways:

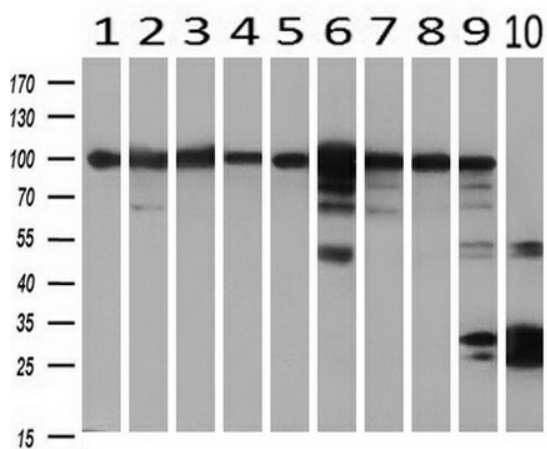
Metabolic pathways, Pentose phosphate pathway

Product images:


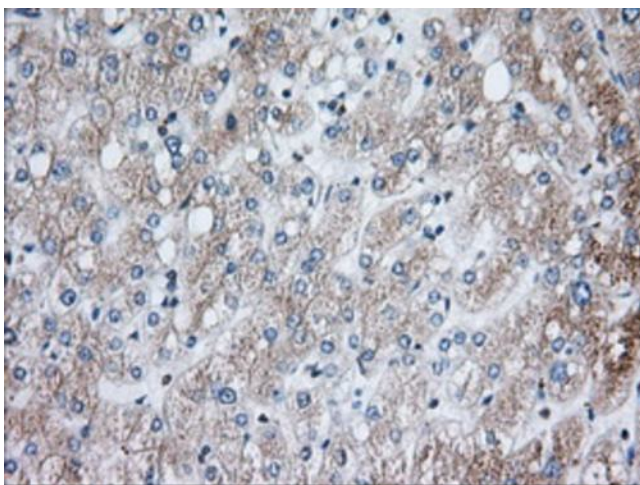
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY H6PD (Cat# [RC209890], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-H6PD(Cat# [TA501257]). Positive lysates [LY401369] (100ug) and [LC401369] (20ug) can be purchased separately from OriGene.



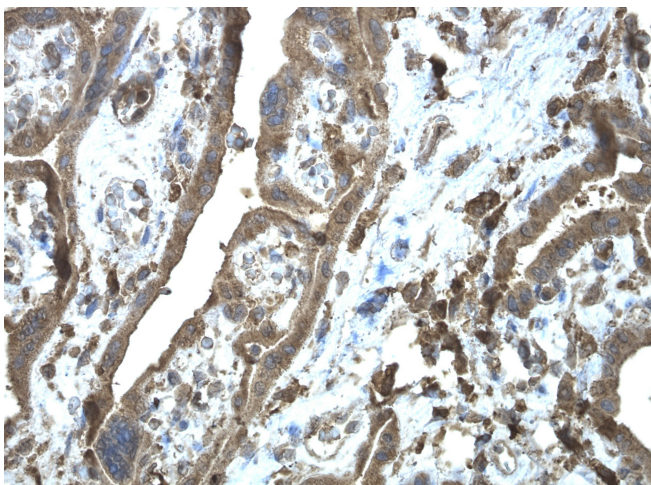
Western blot analysis of extracts (50ug per lane) from 7 cell lines lysates by using anti-H6PD antibody ([TA501257],1:500).



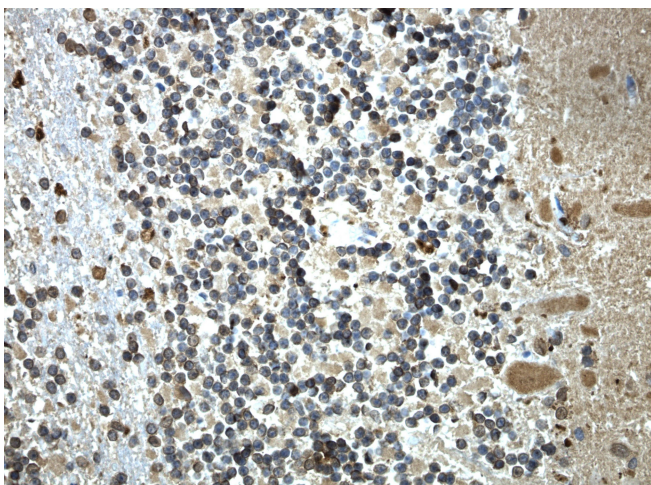
Western blot analysis of extracts (10ug) from 10 Human tissue by using anti-H6PD monoclonal antibody at 1:500 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon;10: spleen).



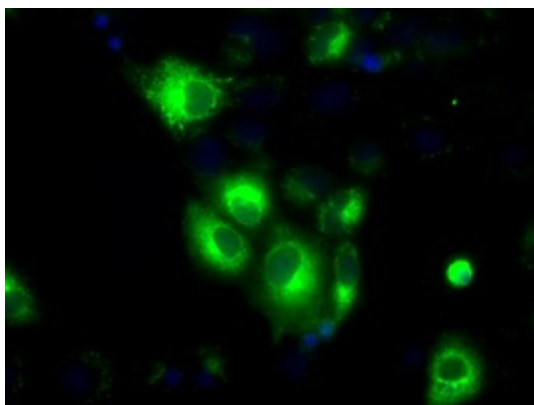
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-H6PD mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



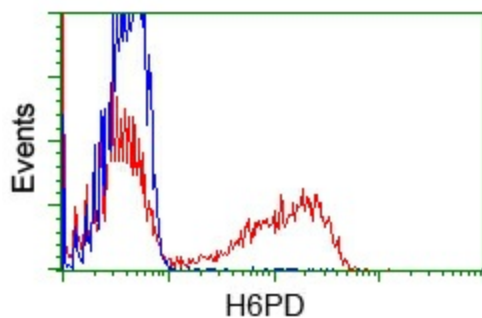
Immunohistochemical staining of paraffin-embedded placenta using anti-H6PD antibody [TA501257] clone OT12A7 mouse monoclonal antibody. Protocol used HIER TEE pH9.0 (cat# [B21-100]) and anti-H6PD at 1:100 dilution. Detection was done with Polink1 Broad Mouse and Rabbit C/N [D11-18] with DAB Kit. Image 40x magnification.



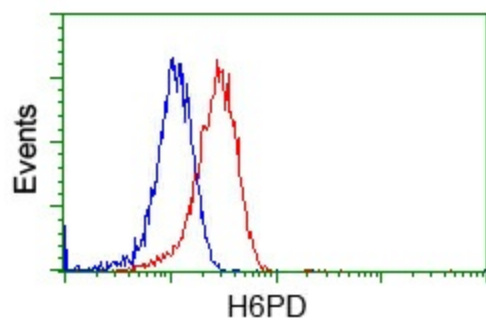
Immunohistochemical staining of paraffin-embedded brain using anti-H6PD antibody [TA501257] clone OTI2A7 mouse monoclonal antibody. HIER TEE pH9.0 (cat# [B21-100]) and anti-H6PD at 1:100 dilution. Detection was done with Polink1 Broad Mouse and Rabbit C/N [D11-18] with DAB Kit. Image 40x magnification.



Anti-H6PD mouse monoclonal antibody ([TA501257]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY H6PD ([RC209890]).



HEK293T cells transfected with either [RC209890] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-H6PD antibody ([TA501257]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-H6PD antibody ([TA501257]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).