

Datasheet for ABIN6939550

anti-GPX4 antibody**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	GPX4
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GPX4 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Coating (Coat), Staining Methods (StM)

Product Details

Immunogen:	A 375P cells crude extract
Clone:	LHM 2
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	GPX4
Alternative Name:	GPX4 (GPX4 Products)
Background:	Glutathione Peroxidase 4 (GPX4) stabilizes cell-substratum interactions during early events of melanoma cell spreading on endothelial basement membranes. NG2 may facilitate primary melanoma progression by enhancing the activation of key signaling pathways important for

Target Details

tumor invasion and growth. Threonine 2256 phosphorylation of rat NG2 (threonine 2252 phosphorylation of human NG2) leads to redistribution of NG2 on the surface of astrocytomas, polarization of the cell and a significant increase in cell motility. NG2 acts as a co-receptor for spreading and focal contact formation in association with 1 integrin in malignant melanoma cells. NG2 is present on blood vessels throughout the rat embryo. Microvessels within the rat CNS express NG2 on endothelial cells, and outside the CNS, NG2 is present on smooth muscle cells. NG2 is a novel marker for epidermal stem cells that contributes to their patterned distribution by promoting stem cell clustering.

Molecular Weight: 21kDa

Gene ID: 2879

UniProt: [P36969](#)

Application Details

Application Notes: Positive Control: MCF7 or HepG2 cells. Human brain or malignant melanoma.
Known Application: ELISA (For coating, order antibody without BSA), Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

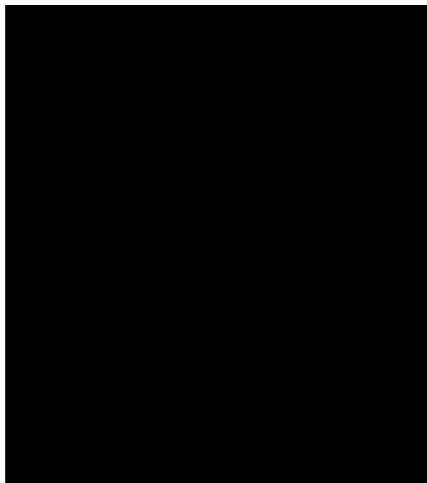
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

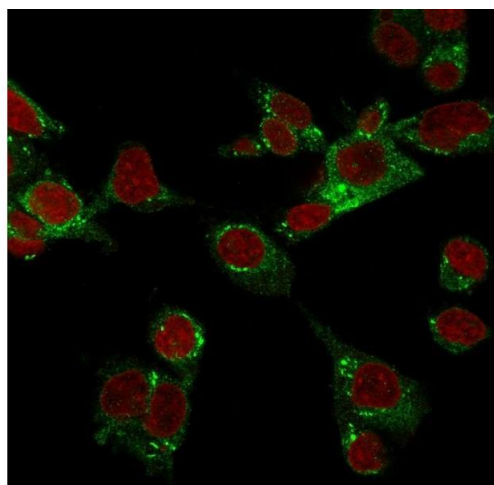
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months



SDS-PAGE

Image 1. SDS-PAGE Analysis Purified GPX4 / MCSP Mouse Monoclonal Antibody (LHM 2). Confirmation of Purity and Integrity of Antibody.



Immunofluorescence

Image 2. Confocal immunofluorescence image of HepG2 cells stained with GPX4 / MCSP Mouse Monoclonal Antibody (LHM 2) followed by Goat anti-Mouse CF488 (green). Reddot is used to label the nuclei red.