

## 36-2417: Anti-GPX4 / MCSP Monoclonal Antibody(Clone: LHM 2)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	LHM 2
<b>Application :</b>	ELISA,FACS,IF,IHC
<b>Reactivity :</b>	Human, Mouse, Rat
<b>Gene :</b>	GPX4
<b>Gene ID :</b>	2879
<b>Uniprot ID :</b>	P36969
<b>Alternative Name :</b>	Glutathione Peroxidase 4 (GPX4); Melanoma-associated Chondroitin Sulfate Proteoglycan (MCSP); Phospholipid hydroperoxidase (PHGPx); Sperm nucleus glutathione peroxidase (snGPx)
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	A 375P cells crude extract

### Description

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 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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	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.

### Application Note

ELISA (For coating, order antibody without BSA); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

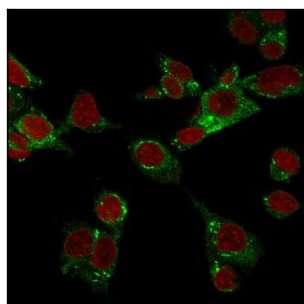


Fig. 1: Confocal immunofluorescence image of HepG2 cells stained with GPX4 / MCSP Mouse Monoclonal Antibody (LHM 2) followed by Goat anti-Mouse CF488 (green). Reddot is used to label the nuclei red.

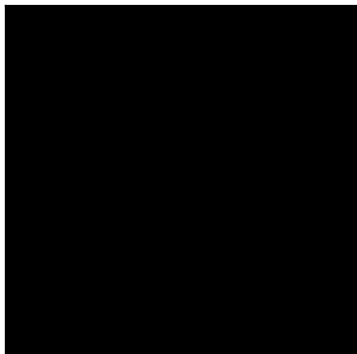


Fig. 2: SDS-PAGE Analysis Purified GPX4 / MCSP Mouse Monoclonal Antibody (LHM 2). Confirmation of Purity and Integrity of Antibody.