

Lactoylglutathione lyase, *syn. gloxalase*

UniProt

Function: Catalyzes the conversion of hemimercaptal, formed from methylglyoxal and glutathione, to S-lactoylglutathione.

Two antibodies: GLO1-1 and GLO1-3 were tested. GLO1-1 and GLO1-3 were approved for IHC and both antibodies were selected for full protein profiling.

GLO1-1 (CAB040541)

Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:3000

IHC test staining: Ubiquitous cytoplasmic staining. High expression in, eg prostate, fallopian tube and leydig cells.

IHC Annotators comments

Normal tissues showed weak to moderate nuclear and cytoplasmic staining. Alveolar cells and thyroid showed strong cytoplasmic staining. Epididymis and prostate displayed strong cytoplasmic and nuclear staining. Bile duct cells, islet cells, cells in glomeruli, trophoblastic cells, myocytes and the reaction center cells were weakly stained or negative. Malignant tissues showed moderate to strong nuclear and cytoplasmic positivity along with distinct staining of extracellular material.

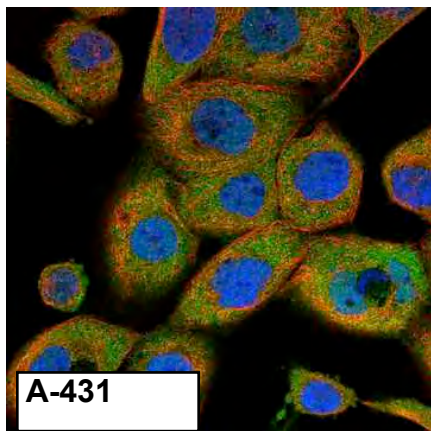


Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)

IF Localisation: Staining of cytoplasm and nucleus in all three cell lines.

IF Validation: Subcellular localization partly supported by literature or where no literature is available.



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 21

WB Validation: Supportive - Band of predicted size in kDa (+/-20%) with additional bands present.

