

Glutathione S-transferase Mu 3

UniProt

Function: Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. May govern uptake and detoxification of both endogenous compounds and xenobiotics at the testis and brain blood barriers.

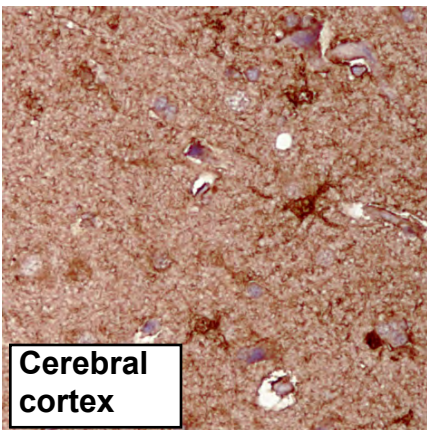
Subcellular location: Cytoplasm.

Tissue specificity: Testis and brain.

Three antibodies: GSTMu3-1, GSTMu3-2 and GSTMu3-3 were tested. All three antibodies were approved for IHC. GSTMu3-1 was selected for full protein profiling.

GSTMu3-1 (CAB040583)

Immunohistochemistry



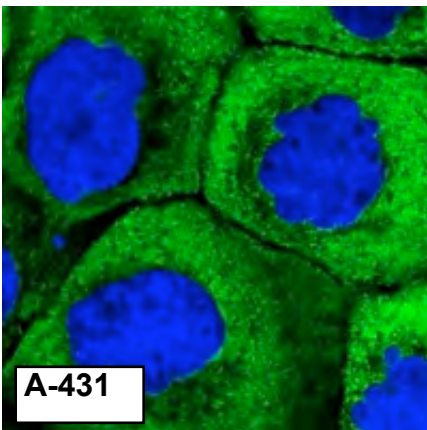
IHC protocol: HIER pH 6, Dilution 1:6000

IHC test staining: Cytoplasmic staining in selected tissues. High expression in testes, pancreas, kidney and CNS.

IHC Annotators comments

Most of the normal tissues displayed moderate to strong cytoplasmic positivity with additional nuclear and membranous staining in few cases. Nasopharynx, lung, trophoblasts, reaction center cells of tonsil and bone marrow poietic cells were negative.

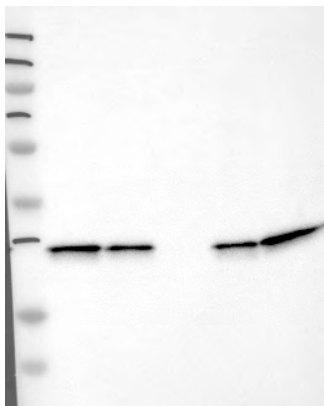
Most of the malignant tissues exhibited weak to moderate cytoplasmic positivity with additional nuclear and membranous staining in few cases. Several duct carcinomas of breast, few pancreatic, urothelial cancers along with occasional malignancies of lung and uterine cervix displayed strong immunoreactivity. Several negative cases were observed among all malignancies.



Immunofluorescence

IF Overlay: Staining of cytoplasm in all three cell lines. Additional staining of nucleoli in U-2 OS.

IF Validation: Subcellular localization supported by literature.



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): 27

WB Validation: Supportive - High specificity (no other antigen with signal >15%).