

GSTM2 (V-20): sc-130051

BACKGROUND

Members of the glutathione S-transferase (GST) family of proteins function in the detoxification of xenobiotics to protect cells against toxicant-induced damage. There are eight families of GST proteins, namely α , κ , μ , ω , π , σ , θ and ζ , each of which are composed of proteins that have a variety of functions throughout the cell. The GSTM proteins (GSTM1-GSTM5 in human and GSTM1-GSTM7 in mouse) are members of the μ class of enzymes that conjugate with glutathione and function in the detoxification of carcinogens, environmental toxins and products of oxidative stress. The μ proteins, including GSTM2, are encoded by genes that form a cluster on chromosome 1p13.3 and are known to be highly polymorphic, affecting an individual's susceptibility to toxins. Mutations in the genes encoding GSTM proteins are associated with tumor progression, suggesting an important role for GSTM proteins in carcinogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GSTM2 (human) mapping to 1p13.3.

SOURCE

GSTM2 (V-20) is a purified rabbit polyclonal antibody raised against GSTM2 of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

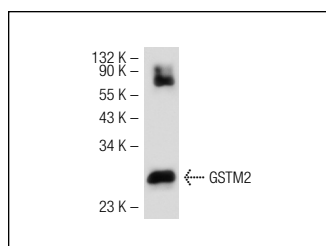
GSTM2 (V-20) is recommended for detection of GSTM2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GSTM2 siRNA (h): sc-105426, GSTM2 shRNA Plasmid (h): sc-105426-SH and GSTM2 shRNA (h) Lentiviral Particles: sc-105426-V.

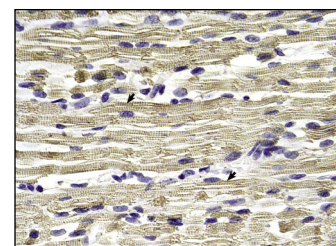
Molecular Weight of GSTM2: 26 kDa.

Positive Controls: Raji whole cell lysate: sc-364236.

DATA



GSTM2 (V-20): sc-130051. Western blot analysis of GSTM2 expression in 293T whole cell lysate.



GSTM2 (V-20): sc-130051. Immunoperoxidase staining of formalin fixed, paraffin-embedded human muscle showing cytoplasmic staining.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



MONOS
Satisfaction
Guaranteed

Try **GSTM2 (E-9): sc-376486**, our highly recommended monoclonal alternative to GSTM2 (V-20).