

Anti-GSTM2 Antibody (4H482)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4H482
Purification:	Protein A

Applications

1. GSTM2 was immunoprecipitated using:
 - Lane A:0.5 mg Hela Whole Cell Lysate.
 - Lane B:0.5 mg Jurkat Whole Cell Lysate.
 - 2 μ L anti-GSTM2 rabbit monoclonal antibody and 60 μ g of Immunomagnetic beads Protein G.
 - Primary antibody:
 - Anti-GSTM2 rabbit monoclonal antibody, at 1:100 dilution.
 - Secondary antibody:
 - Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution.
 - Developed using the odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size: 26 kDa.
 - Observed band size: 26 kDa.
2. Anti-GSTM2 rabbit monoclonal antibody at 1:500 dilution.
 - Lane A: 293T Whole Cell Lysate.
 - Lane B: 293 Whole Cell lysate.
 - Lysates/proteins at 30 μ g per lane.
 - Secondary
 - Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
 - Developed using the Odyssey technique.
 - Performed under reducing conditions.
 - Predicted band size:26 kDa.
 - Observed band size:28 kDa.
3. Immunofluorescence staining of GSTM2 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human GSTM2 monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.

Application: ICC/IF,IP,WB

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Recommended WB: 1:500-1:2000; ICC-IF: 1:20-1:100; IP: 1-4 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human GSTM2 protein (TMPY-02223)

Antigen Species: Human

Synonyms: GST4;GSTM;glutathione S-transferase mu 2 (muscle);GTHMUS;GSTM2-2

Research Background

Glutathione S-transferase Mu 2, also known as GST class-mu 2, GSTM2-2, and GSTM2, is a cytoplasm protein that belongs to the GST superfamily and Mu family. GSTM2 / GST4 contains one GST C-terminal domain and one GST N-terminal domain. The glutathione S-transferases (GSTs) are a multigene family of enzymes largely involved in the detoxification of chemicals. Eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta, and zeta. Butyrate, an important luminal component produced from the fermentation of dietary fibers, is an efficient inducer of GSTs and especially of GSTM2. Butyrate may act chemoprotective by increasing detoxification capabilities in the colon mucosa.

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