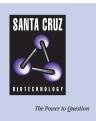
SANTA CRUZ BIOTECHNOLOGY, INC.

Mesothelin (L-16): sc-27703



BACKGROUND

Mesothelin is a 40 kDa glycosylphosphatidylinositol-linked cell-surface molecule expressed in the mesothelial lining of the body cavities and in many tumor cells. Mesothelin is a tumor antigen on the surface of human ovarian cancers and mesotheliomas. Mesothelin immunoreactivity is high in cancers of the ovary (serous papillary, endometrioid and undifferentiated) and pancreas, with less frequent staining seen in adenocarcinomas of the endometrium, lung and stomach/esophagus. In adult mouse tissues the mesothelin transcript is present in lung, heart, spleen, liver, kidney and testis.

REFERENCES

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- Hassan, R., et al. 1999. 111Indium-labeled monoclonal antibody K1: biodistribution study in nude mice bearing a human carcinoma xenograft expressing mesothelin. Int. J. Cancer. 80: 559-563.
- Bera, T.K., et al. 2000. Mesothelin is not required for normal mouse development or reproduction. Mol. Cell. Biol. 20: 2902-2906.
- Frierson, H.F., Jr., et al. 2003. Large-scale molecular and tissue microarray analysis of mesothelin expression in common human carcinomas. Hum. Pathol. 34: 605-609.
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- 7. Entrez Gene #10232; http://www.ncbi.nih.gov/entrez/query.fcgi?db=gene

CHROMOSOMAL LOCATION

Genetic locus: MSLN (human) mapping to 16p13.3; MsIn (mouse) mapping to 17 A3.3.

SOURCE

Mesothelin (L-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Mesothelin of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27703 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Mesothelin (L-16) is recommended for detection of Mesothelin of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (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 Mesothelin siRNA (m): sc-45387.

Molecular Weight of mature Mesothelin: 40 kDa.

Molecular Weight of precursor Mesothelin: 69 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.