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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-Mesothelin [MN-1] Standard Size Ab03251-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: MN-1

Alternative Name(s) of Target: MSLN; CAK1 antigen; Pre-pro-megakaryocyte-potentiating factor; MN

UniProt Accession Number of Target Protein: Q13421

Published Application(s): IP, SPR, WB, ELISA, FC, IHC

Published Species Reactivity: Human

Immunogen: The original antibody was generated in mesothelin-deficient mice by immunization with plasmid cDNA corresponding to the mesothelin extracellular domain followed by a single boost with a recombinant human mesothelin-rabbit IgG Fc fusion protein.

Specificity: This antibody can recognize and bind human mesothelin. This antibody binds a different antibody on the human mesothelin than another antibody called MB. Mesothelin (MSLN) is a glycoposphatidylinositol (GPI)-linked cell surface protein highly expressed in several types of malignant tumors sometimes in association with increased tumor aggressiveness and poor clinical outcome. The membrane-anchored forms of this molecule may play a role in cellular adhesion.

Application Notes: The binding characterization of this antibody was done using ELISA and SPR. The binding affinity of the original IgG2a antibody for mesothelin-Fc protein was determined by BIAcore and reported to be $K_d = 1.0$ nM. This antibody can recognize membrane bound mesothelin on the surface of mesothelin positive H226, A1847, Hela and Panc3.014 cells (mesothelin-positive) in a flow cytometry. This antibody can also bind denatured human mesothelin in a western blot assay. This antibody was also used in the immunohistochemical staining of cancerous tissue like ovarian adenocarcinoma and normal tissues like peritoneal mesothelium on uterus, pleural mesothelium on lung and fallopian tube luminal fluid (PMID: 16115924). This antibody was also used in an immunohistochemical analysis of 1562 tumors for mesothelin expression. It was reported that mesothelin was highly expressed in ovarian serous carcinoma, pancreatic adenocarcinoma and malignant pleural mesothelioma (PMID: 28460459). This antibody was also used in the immunoprecipitation of mesothelin from cell lysates (PMID: 23694968).

Antibody First Published in: Onda et al. New monoclonal antibodies to mesothelin useful for

immunohistochemistry, fluorescence-activated cell sorting, Western blotting, and ELISA. Clin Cancer Res. 2005 Aug 15;11(16):5840-6. [PMID:16115924](#)

Note on publication: Describes the generation of two antibodies against different epitopes of human mesothelin.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.