Human/Rat SUSD2 Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1279D
Catalog Number: MAB90563

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects human SUSD2 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1279D
Purification	Protein A or G purified from cell culture supernatant
Immunogen	HEK293 human embryonic kidney cell line-derived human SUSD2 Met1-Ala785 Accession # Q9UGT4
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

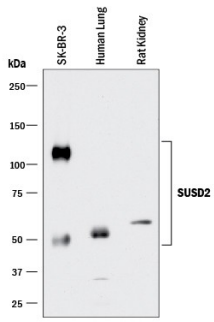
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Flow Cytometry	0.25 µg/10^6 cells	See Below

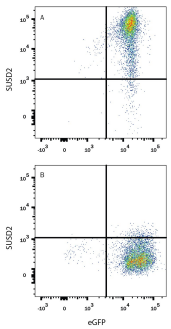
DATA

Western Blot



Detection of SUSD2 by Western Blot. Western blot shows lysates of SK-BR-3 human breast cancer cell line, human lung tissue, and rat kidney tissue. PVDF membrane was probed with 1 µg/mL of Rabbit Anti-Human/Rat SUSD2 Monoclonal Antibody (Catalog # MAB90563) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for SUSD2 at approximately 110 and 50-60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of SUSD2 in HEK293 Human Cell Line Transfected with Human SUSD2 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human SUSD2 or (B) irrelevant transfectants and eGFP was stained with Rabbit Anti-Human/Rat SUSD2 Monoclonal Antibody (Catalog # MAB90563) followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). Quadrant markers were set based on control antibody staining (Catalog # AB-105-C). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Sushi domain containing 2, or SUSD2, is a type I transmembrane protein of 822 amino acids containing functional domains inherent to adhesion molecules. SUSD2 has been described as a novel marker of human endometrial mesenchymal stem-like cells and it has been used for their prospective Isolation. As a transmembrane receptor, SUSD2 has been proposed to interact with Galectin-1 and to be the receptor for C10ORF99, a novel potential cytokine suggested to inhibits colon cancer cell growth through inducing G1 arrest. There is evidence that SUSD2 may play a role in breast tumorigenesis.

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