

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SUSD2 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 944812
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-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 as a 0.2 µm filtered solution in PBS.

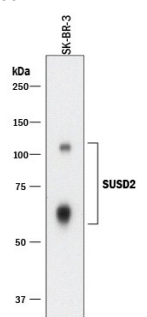
APPLICATIONS

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	0.1 µg/mL	See Below
Immunohistochemistry	8-25 µg/mL	See Below

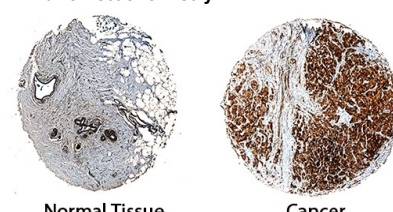
DATA

Western Blot



Detection of Human SUSD2 by Western Blot. Western blot shows lysates of SK-BR-3 human breast cancer cell line. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human SUSD2 Monoclonal Antibody (Catalog # MAB9056) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). Specific bands were detected for SUSD2 at approximately 60 and 110 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



SUSD2 in Human Breast Cancer Tissue. SUSD2 was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human SUSD2 Monoclonal Antibody (Catalog # MAB9056) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm with higher expression in cancer tissue. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 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 inhibit colon cancer cell growth through inducing G1 arrest. There is evidence that SUSD2 may play a role in breast tumorigenesis.