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SUSD3 Antibody

Catalog # ASC11969

Product Information

Application	WB, E
Primary Accession	Q96L08
Other Accession	NP_659443, 21450717
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27119
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SUSD3 antibody can be used for the detection of SUSD3 by Western blot at 1 - 2 □g/mL.

Additional Information

Gene ID	203328
Other Names	Sushi domain-containing protein 3, SUSD3
Target/Specificity	SUSD3; SUSD3 antibody is human and mouse reactive. Multiple isoforms of SUSD3 are known to exist.
Reconstitution & Storage	SUSD3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	SUSD3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SUSD3
Function	May play a role in breast tumorigenesis by promoting estrogen-dependent cell proliferation, cell-cell interactions and migration.
Cellular Location	Cell membrane; Single-pass membrane protein. Note=Prominently localized to cell-cell borders.
Tissue Location	Highly expressed in estrogen receptor-positive breast tumors.

Background

Little is known of the function of the sushi domain containing 3 protein (SUSD3), but its expression has been reported in estrogen receptor-alpha (ERalpha)-positive breast tumors with decreased expression reported in aggressive malignant tumors (1,2). Recently, SUSD3 has been found to promote estrogen-dependent cell proliferation and may regulate cell-cell and cell-substrate interactions and migration in breast cancer (3). Furthermore, elevated SUSD3 mRNA levels were observed in aromatase inhibitor-responsive breast tumors, suggesting that it may also serve as a novel predictor of response to endocrine therapy and a potential therapeutic target (3).

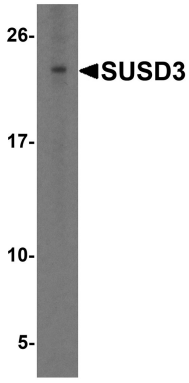
References

Abba MC, Hu Y, Sun H, et al. Gene expression signature of estrogen receptor alpha status in breast cancer. BMC Genomics 2005; 6:37.

Parris TZ, Danielsson A, Nemes S, et al. Clinical implications of gene dosage and gene expression patterns in diploid breast cancer. Clin. Cancer Res. 2010; 16:3860-74.

Moy I, Todorovic V, Dubash AD, et al. Estrogen-dependent sushi domain containing 3 regulates cytoskeleton organization and migration in breast cancer cells. Oncogene 2015; 34:323-33.

Images



Western blot analysis of SUSD3 in HeLa cell lysate with SUSD3 antibody at 1 µg/ml.