

Product Datasheet

SCARA3 Antibody - BSA Free

NBP2-13286

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-13286

SCARA3 Antibody - BSA Free

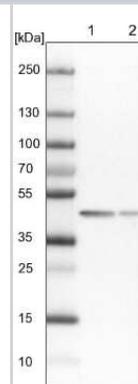
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit SCARA3 Antibody - BSA Free (NBP2-13286) is a polyclonal antibody validated for use in IHC and WB. Anti-SCARA3 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51435
Gene Symbol	SCARA3
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against a recombinant protein corresponding to the amino acids: LNNCSFCHEAGQLGPEIRKLQEELEGIQKLLLAQEVQLDQTLQAQEVLSSTSRQ ISQEMGSCSFSIHQVNQSLGLFLAQVRGWQATTAGLDLSLKDILTQECYDVKAA VHQINFTVGQTSEWIHGIQRKTDEETLTLQKIVTDWQNYTRL

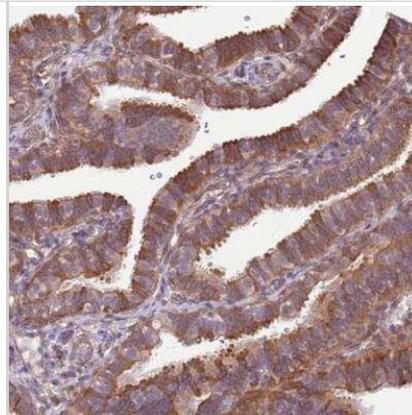
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

Western Blot: SCARA3 Antibody [NBP2-13286] - Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells). Lane 2: NBT-II cell lysate (Rat Wistar bladder tumor cells).



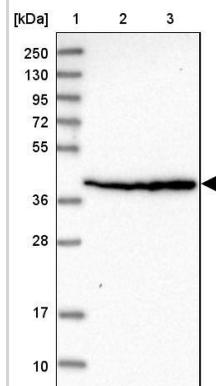
Immunohistochemistry-Paraffin: SCARA3 Antibody [NBP2-13286] - Staining of human fallopian tube shows moderate cytoplasmic positivity in glandular cells.



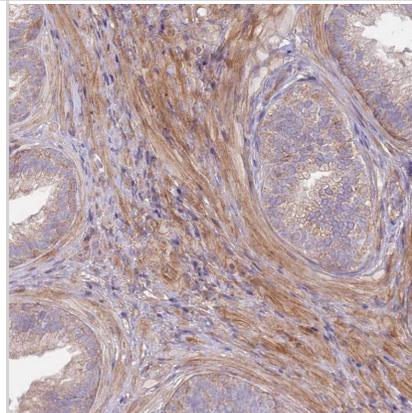
Lane 1: Marker [kDa] 250, 130, 95, 72, 55, 36, 28, 17, 10

Lane 2: Human cell line RT-4

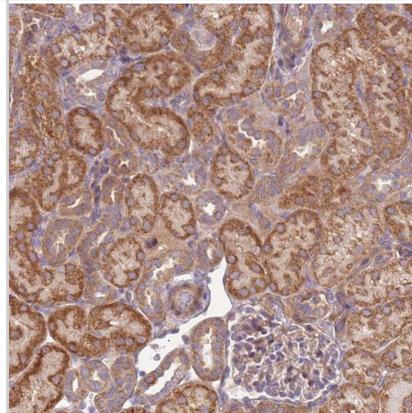
Lane 3: Human cell line U-251MG sp



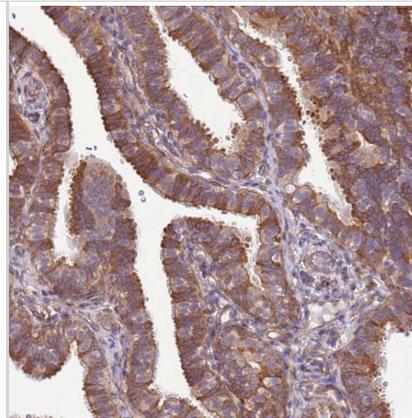
Staining of human prostate shows strong cytoplasm granular positivity in smooth muscle cells.



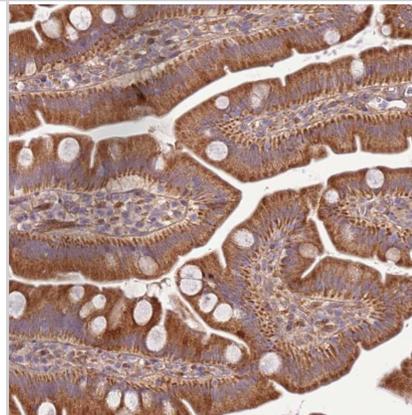
Staining of human kidney shows strong cytoplasm granular positivity in cells in tubules.



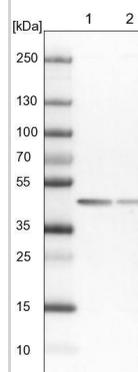
Staining of human fallopian tube shows strong cytoplasm granular positivity.



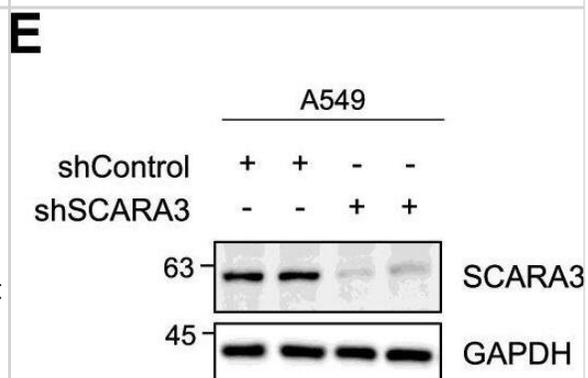
Staining of human small intestine shows strong cytoplasm granular positivity in glandular cells.



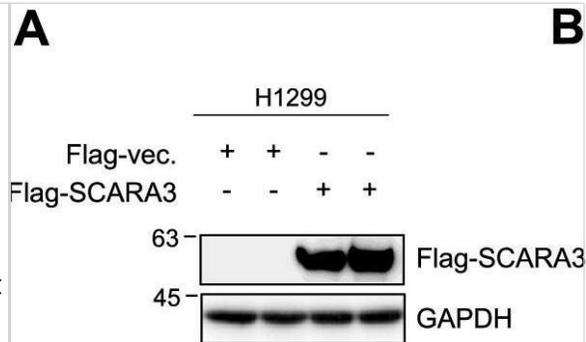
Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells)
Lane 2: NBT-II cell lysate (Rat Wistar bladder tumour cells)



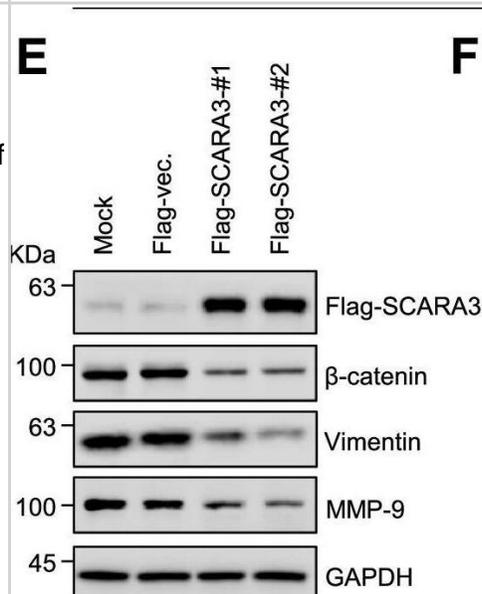
SCARA3 inhibits proliferation of lung cancer in vivo. A Western blot analysis for Flag-SCARA3 expression in indicated H1299 cells. B Tumors derived from indicated H1299 cells at end point (n = 5 mice per group). C Average tumor weight of indicated group at the endpoint of the experiment. D Growth curves of tumors derived from indicated H1299 cells in mice. Data are shown as mean +/- SD. ***, P < 0.001, two-way ANOVA. E Western blot analysis for shSCARA3 expression in indicated A549 cells. F Tumors derived from the indicated A549 cells at end point (n = 5 mice per group). G Average tumor weight of the indicated group at the endpoint of the experiment. H Growth curves of tumors derived from indicated A549 cells in mice. Data are shown as mean +/- SD. ***, P < 0.001, two-way ANOVA. I and J Tumor sections from mice injected with indicated H1299 and A549 cells were stained with hematoxylin-eosin. Immunostained sections were stained with SCARA3 and Ki67. Scale bar = 100 μ m Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35578316>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



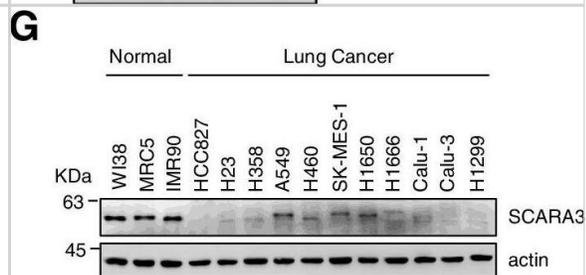
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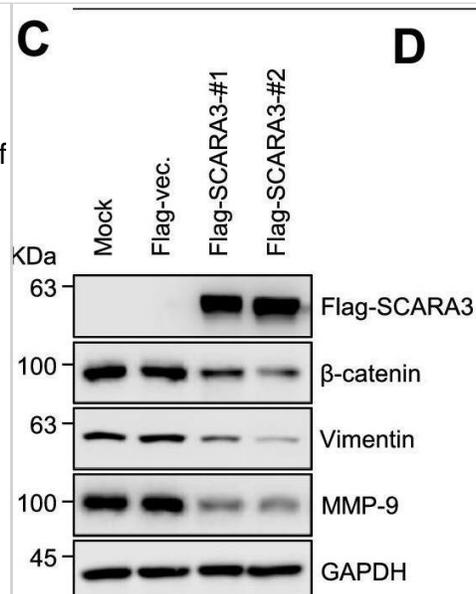
Overexpression of SCARA3 downregulates Epithelial-Mesenchymal Transition (EMT). A Migration of H1299 and A549 cells determined with Transwell assays. B H1299 and A549 invasion ability examined by Matrigel Transwell invasion assay. Quantitative results of migration and invasion assays are shown below. Data are presented as mean +/- SD of three independent experiments. ***, P < 0.001. C Flag-tagged SCARA3 was expressed in H1299 cells. Protein levels of β -catenin, vimentin, and MMP9 were examined by Western blot using their specific antibodies. D Immunofluorescent staining of fixed H1299 cells with anti-Flag and β -catenin antibodies. Nuclei were stained with DAPI. Scale bar = 20 μ m. E Flag-tagged SCARA3 was expressed in A549 cells. Protein levels of β -catenin, vimentin, and MMP9 were examined by Western blot using their specific antibodies. F Immunofluorescent staining of fixed A549 cells with anti-Flag and β -catenin antibodies. Nuclei were stained with DAPI. Scale bar = 20 μ m Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35578316>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



SCARA3 is aberrantly downregulated in lung cancer. A Expression of SCARA3 mRNA in 10 primary cancer types from TCGA. Data are shown as mean +/- SD. ns, not significant; ***, P < 0.001, two-tailed Student's t-test. B SCARA3 gene is located on the short arm of chromosome 8 at position 8q21.1. C Alteration frequency of SCARA3 gene in 10 cancer types from TCGA. D Kaplan-Meier analysis of survival according to SCARA3 in lung cancer, breast cancer, and head and neck cancer patients. P values are from a Log-rank test. E, F SCARA3 protein was immunohistochemically stained with brown color in the cytoplasm and/or nuclei of lung cancer tissues. Scale bar = 100 μ m. G, H Expression levels of SCARA3 proteins (G) mRNAs (H) were determined by Western blot and RT- qPCR, respectively, using specific anti-SCARA3 antibodies and SCARA3-specific primers in various lung cancer cell lines and adjacent normal cell lines. Data are presented as mean +/- SD of three independent experiments. **, P < 0.01; ***, P < 0.001 Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35578316>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Kim J, You HJ, Youn C. SCARA3 inhibits cell proliferation and EMT through AKT signaling pathway in lung cancer BMC Cancer 2022-12-01 [PMID: 35578316]



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Products Related to NBP2-13286

NBP2-13286PEP	SCARA3 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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