

Product Datasheet

Otubain-1 Antibody NBP1-49934

Unit Size: 0.1 ml

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Updated 9/9/2025 v.20.1

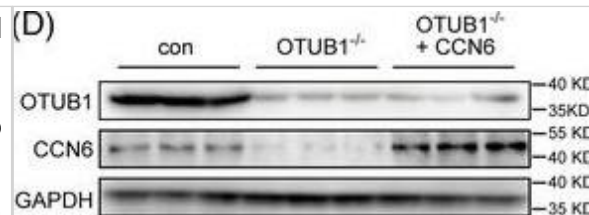
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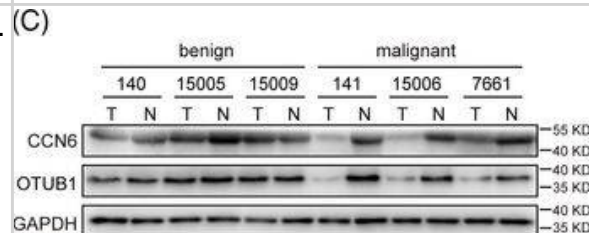
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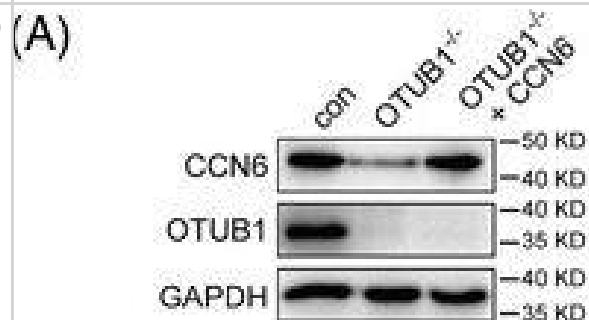
OTUB1 inhibits breast cancer growth in vivo. (A) Control, OTUB1^{-/-} and OTUB1^{-/-} + CCN6 4T1 cells were injected into nude mice and tumour volume was measured (n = 6 for all groups) (mean +/- SEM, NC vs. OTUB1^{-/-}: *p < .05, **p < .01; NC vs. OTUB1^{-/-} + CCN6: #p < .05, ##p < .01). On day 9 after tumour inoculation, mice were sacrificed and tumours were collected. Tumour (B) size and (C) weight were measured (n = 6 for all groups) (mean +/- SEM, *p < .05, **p < .01). (D) Whole cell lysates of tumour samples were analysed by Western blot for OTUB1, CCN6 and GAPDH. (E) Tumour samples were stained for Ki67 and immunoreactivity was detected by 3,3'-diaminobenzidine chromogen (brown). Sections were counterstained with haematoxylin (blue) (scale bar = 100 µm). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37608493>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



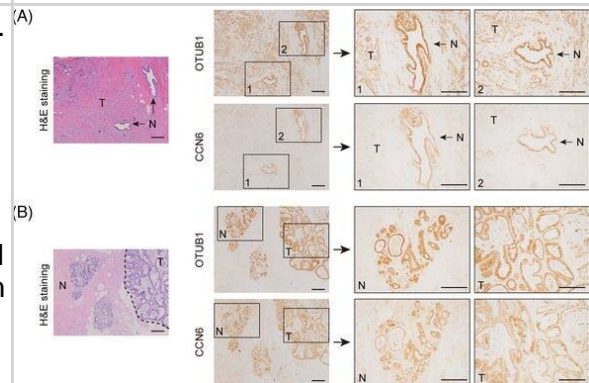
OTUB1 expression is positively correlated with CCN6 in clinical samples. (A) An invasive ductal carcinoma (Grade II, moderately differentiated) sample (T) and the adjacent non-tumour tissue (N) were analysed with H&E staining and immunohistochemistry for OTUB1 and CCN6 (scale bar = 100 µm). (B) A breast intraductal papilloma sample (T) and the adjacent non-tumour tissue (N) were analysed with H&E staining and immunohistochemistry for OTUB1 and CCN6 (scale bar = 100 µm). (C) Clinical samples were analysed with Western blot for OTUB1, CCN6 and GAPDH. (D) Correlation between the expression of OTUB1 and CCN6 in tumour tissues (upper panel) and adjacent non-tumour tissues (lower panel). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37608493>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



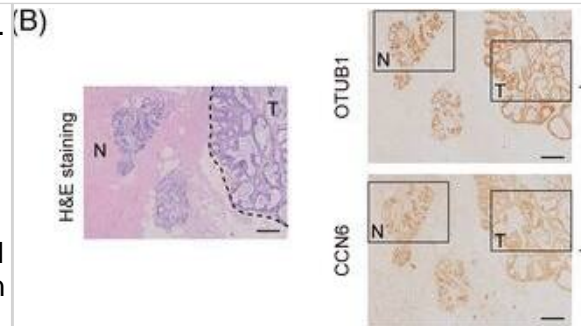
OTUB1 inhibits aggressive phenotypes of breast cancer cells in vitro. (A) Western blot analysis of CCN6, OTUB1 and GAPDH in control, OTUB1^{-/-} and OTUB1^{-/-} + CCN6 4T1 cells. Cell migration of different 4T1 cells was determined by (B) wound healing assay and (C) transwell migration assay (scale bar = 500 µm). Cell proliferation of different 4T1 cells was determined by crystal violet staining. Images were taken with (D) 1× and (E) 4× magnification (scale bar = 500 µm). (F) MTT assays were performed to assess the viability of different 4T1 cells (n = 3 for all groups) (mean +/- SEM, *p < .05). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37608493>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Zhao Y, Ruan J, Li Z et al. OTUB1 inhibits breast cancer by non-canonically stabilizing CCN6 Clinical and Translational Medicine 2023-08-22 [PMID: 37608493] (Western Blot, Mouse)

Du X, Xu J, Mei F et al. Deubiquitination of RIPK2 by OTUB2 augments NOD2 signalling and protective effects in intestinal inflammation. Clinical and translational medicine 2024-10-03 [PMID: 39358938]

Mulas F Dendritic cell-specific function of OTUB1 in inflammation and infection Thesis 2020-01-01 (WB)

Mulas F, Wang X, Song S et al. The deubiquitinase OTUB1 augments NF- κ B-dependent immune responses in dendritic cells in infection and inflammation by stabilizing UBC13 Cell. Mol. Immunol. 2020-02-05 [PMID: 32024978] (WB, Mouse)

Wang, X;Mulas, F;Yi, W;Brunn, A;Nishanth, G;Just, S;Waisman, A;Bruck, W;Deckert, M;Schluter, D; OTUB1 inhibits CNS autoimmunity by preventing IFN-gamma-induced hyperactivation of astrocytes EMBO J. 2019-04-03 [PMID: 30944096] (WB, Mouse)



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