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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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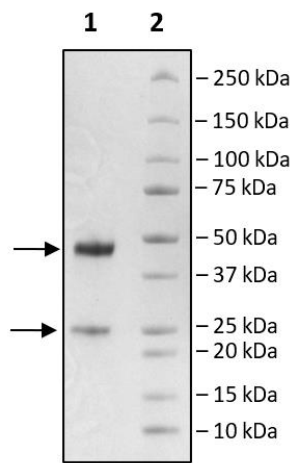
[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Product Information

Description:	This anti-EGFR-anti-RNF43 AbTAC (Antibody-based Targeted Protein Degradation) is a purified, recombinant monoclonal antibody that recognizes human EGFR (epidermal growth factor receptor) and human RNF43 (ring finger protein 43). This antibody has been functionally tested in a flow cytometry assay for its ability to induce targeted degradation of EGFR.
Background:	RNF43, or ring finger protein 43, is an E3 ubiquitin ligase that acts as a tumor suppressor to negatively regulate the WNT signaling pathway through promoting the degradation of frizzled WNT receptors. AbTACs target both tumor-associated antigens (TAAs) and RNF43 on the cell surface, promoting the ubiquitination and subsequent degradation of TAAs by RNF43. This mechanism results in the suppression of tumor cell proliferation and may enhance the efficacy of anti-cancer therapies in tumors that overexpress TAAs. This bispecific antibody facilitates EGFR degradation by recruiting RNF43, exploiting its E3 ligase activity to trigger targeted degradation.
Species:	Human
Isotype:	Human IgG1
Clonality:	Monoclonal
Concentration:	0.32 mg/ml
Expression System:	HEK293
Purity:	≥90%
Format:	Aqueous buffer solution.
Formulated In:	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol
MW:	Anti-EGFR Heavy chain: 49.6 kDa; Anti-RNF43 Heavy chain: 49.3 kDa Light chain: 23.3 kDa
Endotoxin:	27 EU/mg
Stability:	At least 12 months at -80°C.
Storage:	-80°C
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Assay Conditions:	This product was validated by flow cytometry analysis for its ability to induce EGFR surface degradation in HCT-116 cells. HCT-116 cells were cultured in a 6-well plate and treated with 50 nM of Anti-RNF43-Anti-EGFR AbTAC (#102492) for 6 hours. Negative control groups included HCT-116 cells treated with Anti-RNF43-Anti-EGFR Bispecific AbTAC in the presence of bafilomycin A1 (a lysosomal inhibitor), Anti-RNF43, Avi-Tag, Biotin-Labeled Antibody (#102549), and DMSO. After incubation, cells were analyzed by flow cytometry. One million cells of each sample were blocked and stained with PE anti-human EGFR Antibody (BioLegend #352904) for 30 minutes on ice, washed three times, and analyzed by flow cytometry.
Applications:	Useful for studying targeted degradation of human EGFR on the cell surface.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



Flow Cytometry Analysis of EGFR Cell Surface Degradation

