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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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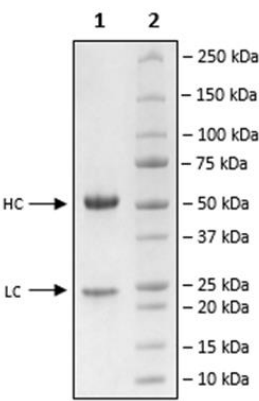


Product Information

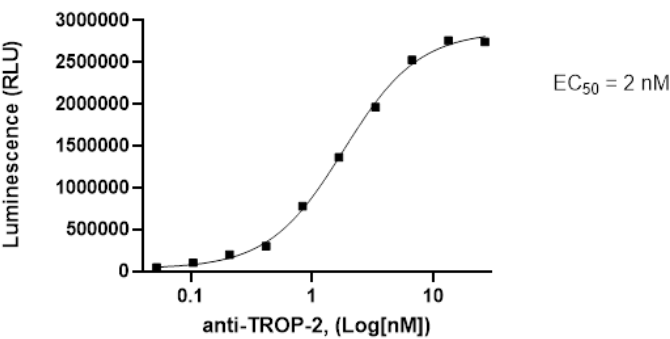
Description:	Recombinant anti-TROP2 antibody recognizing human TROP2 (Trophoblast cell-surface antigen 2) protein. This anti-TROP2 antibody is a purified, humanized recombinant monoclonal antibody, which contains an Avi-Tag™ and is biotinylated at the C-terminus of the heavy chain unit. This antibody has been tested in a binding assay. This antibody is similar to Sacituzumab.
Background:	TROP2 (Trophoblast cell-surface antigen 2), also referred to as tumor associated calcium signal transducer 2 (TACSTD2), GA733-1 or M1S1, is a cell surface glycoprotein that is highly expressed in a variety of solid cancers yet has low expression in normal cells. Through a variety of signaling pathways, such as the MAPK (mitogen-activated protein kinase)/PI3K (phosphoinositide 3-kinase)/AKT (protein kinase B) pathway TROP2 regulates cancer growth and metastasis. Overexpression of this protein is associated with a poor prognosis in cancers such as breast, gastric and ovarian cancer. In other cases, such as NSCLC (non-small cell lung cancer) lower expression seems to link to malignancy. TROP2 is a favorable target for antibody drug conjugates (ADC) and immunotherapy. Studies with Sacituzumab govitecan, an ADC composed of an anti-TROP2 humanized monoclonal antibody and SN-38 (topoisomerase I inhibitor), in cell models have shown promising results.
Species:	Human
Isotype:	IgG1
Clonality:	Monoclonal
Concentration:	1.82 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:	Heavy chain: 51 kDa + glycans; Light chain: 23 kDa
Glycosylation:	This antibody runs at a higher MW by SDS-PAGE due to glycosylation.
Endotoxin Level:	3 EU/mg
Label:	This protein is enzymatically biotinylated using Avi-Tag™ technology. Biotinylation confirmed to be ≥90%.
Stability:	At least 6 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:	A white 96-well plate was precoated with TROP-2, His-Tag protein (AcroBiosystems #TR2-H5223) (100 ng/well). Blocking Buffer 3 (#79743) and PBST were used for blocking and washing steps, respectively. For protein titration a serial dilution of Anti-TROP2 Antibody, Biotin-Labeled (#102729) at the highest concentration of 4 ng/μl (200 ng/reaction) was prepared in 1x PP-02 Assay Buffer (#82620). Diluted Anti-TROP2 was then added to the wells and plate was incubated at Room Temperature (RT) for 1 hour. The plate was then washed again and incubated with anti-Fc-HRP conjugate diluted 1:1000 in Blocking Buffer 3 for 1 hour at RT. After the final wash, ELISA ECL mix (#79670) was added to each well and chemiluminescence was read.
Applications:	Useful for binding assays.

Quality Control Data

4-20% SDS-PAGE Coomassie Staining



TROP2: Anti-TROP2 Binding Activity



Biotin-Avidin Pulldown

