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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-TROP2 [hRS7 (Sacituzumab)] Standard Size Ab03992-3.0

Isotype and Format: Mouse IgG2b, Kappa
Clone Number: hRS7 (Sacituzumab)
Alternative Name(s) of Target: EGP-1; TACSTD2; GA733-1; M1S1; TROP-2; Tumor-associated calcium signal transducer 2; epithelial glycoprotein-1 antigen; Cell surface glycoprotein Trop-2; Membrane component chromosome 1 surface marker 1; Pancreatic carcinoma marker protein GA733-1; IMMU-132; RS7; RS7-3G11
UniProt Accession Number of Target Protein: P09758
Published Application(s): in vivo, therapeutic, FC, IHC
Published Species Reactivity: Human
Immunogen: The parental mouse antibody RS7-3G11 was generated by immunizing mice with crude membrane preparation of a human primary squamous cell carcinoma from the lung. The humanized version of this antibody called hRS7 was generated by grafting CDRs of the parental mouse antibody onto human framework regions.
Specificity: This antibody binds human TROP2 (EGP-1) protein, which functions in a variety of cell signaling pathways and was first elucidated as a transducer of an intracellular calcium signal. Trop-2 is involved in several cell signaling pathways, of which many are associated with tumorigenesis. This antigen is found in many epithelial cancers, including carcinomas of the lung, bladder, breast, cervix, ovary, stomach, prostate cancer, and therefore this antibody could be suitable for targeting these cancers.
Application Notes: The human IgG1 version of this antibody labelled with 131I-IMP-R4 was evaluated for the preclinical radioimmunotherapy (RAIT) of breast cancer. It was used for in vivo experiments in nude mice bearing subcutaneous MDA-MB-468 human breast cancer xenografts (PMID: 14999147). This antibody was used in the immunohistochemical staining of frozen sections of PC3 tumor xenografts. 111In-hRS7 and 89Zr-hRS7 labelled version of this antibody were used for the visualization of PC3 tumors in nude mice using immuno-PET and immuno-SPECT (PMID: 21865288). This antibody was also used in flow cytometric studies for detecting TROP-2 expressed on the surface of primary ovarian cancer cell lines. It was reported that primary ovarian carcinoma cell lines are highly sensitive to hRS7-mediated cytotoxicity in vitro (PMID: 21453957). The antibody drug conjugate hRS7-CL2A-SN-38 (ADC), was evaluated for its efficacy against human solid tumors and its tolerability was studies in mice and monkey. It was reported that the ADC provided specific anti-tumor effects against a variety of human solid tumor types and was well tolerated in monkeys (PMID: 21372224).
Antibody First Published in: Govindam et al. Preclinical therapy of breast cancer with a radioiodinated

humanized anti-EGP-1 monoclonal antibody: advantage of a residualizing iodine radiolabel. Breast Cancer Res Treat. 2004 Mar;84(2):173-82. PMID:14999147
Note on publication: Describes the generation of humanized version of anti-EGP-1 antibody EGP-1 hRS7, labeled with 131I-IMP-R4 and evaluates its use in preclinical radioimmunotherapy (RAIT) of breast cancer.

Product Form

Size: 100 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4^{o}C for up to 3 months. For longer storage, aliquot and store at -20^{o}C.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.