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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-A33 [huA33] Standard Size Ab00782-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: huA33

Alternative Name(s) of Target: hA33; A33; GPA33; glycoprotein A33; cell surface A33 antigen

UniProt Accession Number of Target Protein: Q99795

Published Application(s): deplete, ELISA, IF, IHC

Published Species Reactivity: Human

Immunogen: hA33 was generated by humanization of mouse A33 IgG2a- κ by CDR-grafting, and expressed in NSO cells. The mouse A33 antibody was prepared by immunizing BALB/c mice with AsPC-1 pancreatic adenocarcinoma cell line SP2/0 myeloma cells.

Specificity: hA33 binds specifically to the ectodomain of A33 cell-surface differentiation antigen. The antigen is a single-pass type-1 membrane glycoprotein of the immunoglobulin superfamily and, while not present in most normal and tumor cell type, it is expressed on the vast majority (95%) of both primary and metastatic colon cancer cells. The protein is involved in cell-cell recognition and signaling.

Application Notes: The binding specificity and affinity of the humanized antibody has been shown to be equal to that of the original mouse antibody (1.3 nM), as is the uptake of 90Y-labelled antibody by human colorectal xenografts in nude mice. The circulating half-life of huA33 is also greater than that of the mouse antibody. Antigen-binding assays have been conducted by ELISA using Colo205 and SWI222 A33 antigen-expressing cells. Biodistribution assays have also been performed using hA33-12N4 conjugate in nude mice bearing subcutaneous SWI222 tumour xenografts. This antibody can be used as a biomarker for colorectal carcinoma. TFM (trivalent Fab fragment - constructed using trimaleimide cross-linkers) was shown to have a greater binding avidity for the target compared to huA33 with faster blood clearance shown in cynomolgus monkeys and guinea pigs.

Antibody First Published in: King et al. Preparation and preclinical evaluation of humanised A33 immunoconjugates for radioimmunotherapy. Br J Cancer. 1995 Dec;72(6):1364-72. [PMID:8519646](https://pubmed.ncbi.nlm.nih.gov/8519646/)

Note on publication: Describes the construction of humanized A33 antibody to combat rapid clearance of the antibody as a result of the human anti-mouse antibody (HAMA) response. This antibody was compared with that of the original mouse antibody and its suitability for radioimmunotherapy of colorectal carcinoma was determined.

Product Form

Size: 200 μ g Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°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.