



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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## Anti-A33 [huA33] Standard Size Ab00782-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

**Isotype and Format:** Human IgG1, Fc Silent™, 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-k 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](#)

**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 µg 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.