



# 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-CD105 [huRH105-1] Bulk Size Ab04017-10.3-BT

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

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human IgG1 format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** huRH105-1

**Alternative Name(s) of Target:** endoglin; ENG

**UniProt Accession Number of Target Protein:** P17813

**Published Application(s):** in vitro, in vivo, FC

**Published Species Reactivity:** Rat, Human

**Immunogen:** The original mouse parental antibody RH105-1 was generated by intraperitoneal immunization of BALB/c VAF mice with rat CD105-expressing 300-19 cells. This antibody was synthetically engineered to mimic a binding specificity of the original RH105-1, by grafting the CDRs of the parental antibody onto human framework segments.

**Specificity:** The antibody binds to human and rat endoglin.

**Application Notes:** This antibody was used for detection of CD105 expressed on Vero cell lines by flow cytometry ( $K_d = 0.024$  nM). The ability of the antibody to induce apoptosis on HUVEC cells was measured. Results showed that treatment with the antibody induced apoptosis of up to 47% of HUVEC cells at a concentration of  $0.25$   $\mu\text{g}/\text{mL}$ . Further, the antibody induced a greater percentage of cells to undergo apoptosis under hypoxic conditions. The binding affinity of the antibody and the antibody conjugated to SPDB-DM4 was assayed by flow cytometry. The value of the apparent dissociation constants were calculated  $K_d = 1.63$  nM and  $2.12$  nM, respectively. Treatment of HUVEC cells with huRH105-I-SMCC-DM1 completely reduced viability of HUVEC cells with an  $EC_{50}$  of  $0.12$  nM in in vitro cytotoxicity experiments, while treatment of HUVEC cells with huRH105-I-SPDB-DM4 completely reduced viability with an  $EC_{50}$  of  $0.21$  nM. The antibody bound to Rat Aortic Endothelial Cells (RAOEC) by flow cytometry analysis ( $K_d = 0.13$  nM). The ability the conjugate antibodies to inhibit cell growth of RAOEC cells was measured using an in vitro cytotoxicity assay. Treatment with huRH105-I-SMCC-DM1 completely reduced viability of RAOEC cells with an  $EC_{50}$  of  $0.48$  nM for huRH105-I-SMCC-DM1 and  $1.1$  nM for huRH105-I-SPDB-DM4. Analysis of in vivo efficacy of huRH105-I-SMCC-DM1 in combination with bevacizumab in A2780 and HCT116 rat xenograft models showed improved efficacy compared to the control experiment. Analysis of in vivo efficacy of

huRH105-I-SMCC-DMI alone in an U87MG rat xenograft model showed improved efficacy compared to the control experiment (WO2012149412A2).

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.