



# 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-GDF15 [Clone 29] Bulk Size Ab03700-10.3-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:** Clone 29

**Alternative Name(s) of Target:** MIC-1; GDF-15 MIC1; PDF; PLAB; PTGFB; NAG-1; NRG-1; NAG1; NRG1; Growth/differentiation factor 15; growth and differentiation factor 15; Macrophage inhibitory cytokine 1; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; Placental TGF-beta; Placental bone morphogenetic protein; Prostate differentiation factor; Clone#29; #29

**UniProt Accession Number of Target Protein:** Q99988

**Published Application(s):** functional assay, inhibit, WB, ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original mouse antibody was generated by immunizing BALB/c mice with human GDF-15 / MIC-1 protein. The humanized version was generated by grafting the variable domain regions of the original mouse antibody onto human framework regions.

**Specificity:** This antibody binds the human growth/differentiation factor 15 (GDF-15) also known as macrophage inhibitory cytokine 1. GDF-15 is a divergent member of the transforming growth factor- $\beta$  (TGF- $\beta$ ) superfamily. While physiological expression is barely detectable in most somatic tissues in humans, GDF-15 is abundant in placenta. It regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses. Highly elevated GDF-15 levels are mostly linked to pathological conditions including inflammation, myocardial ischemia, and notably cancer. GDF-15 is widely explored as a biomarker for disease prognosis.

**Application Notes:** This antibody can detect human GDF-15 protein in an ELISA and western blot. This antibody significantly reduces the neovascularization of endothelial cells produced by the GDF-15 protein. It also inhibits the growth of skin cancer, colon cancer, breast cancer or prostate cancer, pancreatic cancer, liver cancer, gastric cancer, inhibits angiogenesis inside/outside these tissues and inhibits the proliferation of cancer cells. The angiogenesis inhibitory activity was first confirmed in vitro through the tube formation assay and aortic ring branching assay. The inhibitory activity of this antibody was also tested in an in vivo angiogenesis assay using chick chorioallantoic membrane (CAM). It was reported that this antibody can

inhibit angiogenesis in vivo to an excellent degree. This antibody is recommended for diagnosis of disease where GDF-15 is overexpressed (WO2019004550).

**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.