

Datasheet for ABIN2181271

HEK-293 Cells IgG1 Isotype Control**2** Images**5** Publications[Go to Product page](#)

Overview

Quantity: 200 µg

Target: IgG1

Reactivity: Human

Host: HEK-293 Cells

Biological Activity: Active

Application: Isotype Control (IsoC)

Product Details

Isotype: IgG1

Characteristics: This protein carries no "tag". The protein has a calculated MW of 26 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity: >95 % as determined by SDS-PAGE.

Sterility: 0.22 µm filtered

Endotoxin Level: Less than 1.0 EU per µg by the LAL method.

Target Details

Target: IgG1

Abstract: [IgG1 Products](#)

Target Type: Antibody

Background: Crystallizable fragments composed of the carboxy-terminal halves of both IMMUNOGLOBULIN

Target Details

HEAVY CHAINS linked to each other by disulfide bonds. Fc fragments contain the carboxy-terminal parts of the heavy chain constant regions that are responsible for the effector functions of an immunoglobulin (COMPLEMENT fixation, binding to the cell membrane via FC RECEPTORS, and placental transport). IgG1 Fc was reported has a novel role as a potential anti-inflammatory drug for treatment of human autoimmune diseases.

Molecular Weight: 26 kDa

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Buffer: 50 mM Tris, 100 mM Glycine, pH 7.5

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: Store at -20°C in lyophilized state after receipt. For long term storage, upon reconstitution rhIgG1 Fc should be aliquot and store at -20°C or -80°C.

Publications

Product cited in: Buecheler, Winzer, Tonillo, Weber, Gieseler: "Impact of Payload Hydrophobicity on the Stability of Antibody-Drug Conjugates." in: **Molecular pharmaceuticals**, Vol. 15, Issue 7, pp. 2656-2664, (2019) ([PubMed](#)).

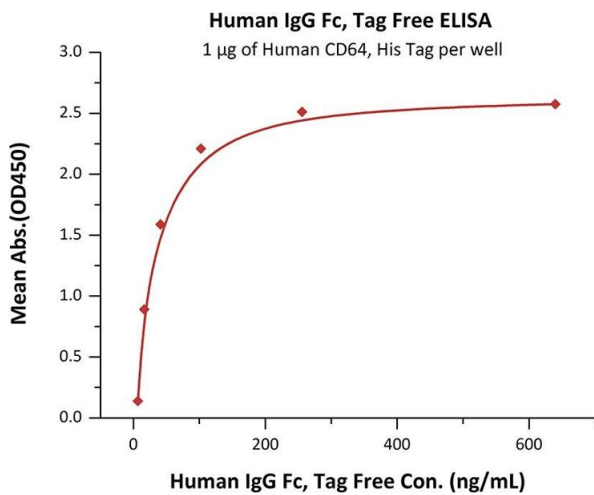
Tao, Zhang, Meraner, Tovaglieri, Wu, Gerhard, Zhang, Stallcup, Miao, He, Hurdle, Breault, Brass, Dong: "Frizzled proteins are colonic epithelial receptors for C. difficile toxin B." in: **Nature**, Vol. 538, Issue 7625, pp. 350-355, (2017) ([PubMed](#)).

Zhou, Wang, Tong, Okamoto, Shen, Zaro: "Single chain Fc-dimer-human growth hormone fusion protein for improved drug delivery." in: **Biomaterials**, Vol. 117, pp. 24-31, (2017) ([PubMed](#)).

West, Pan, Tonsing-Carter, Hernandez, Pierce, Styke, Bowie, Garcia, Kocherginsky, Conzen: "GR and ER Coactivation Alters the Expression of Differentiation Genes and Associates with Improved ER+ Breast Cancer Outcome." in: **Molecular cancer research : MCR**, Vol. 14, Issue 8, pp. 707-19, (2017) ([PubMed](#)).

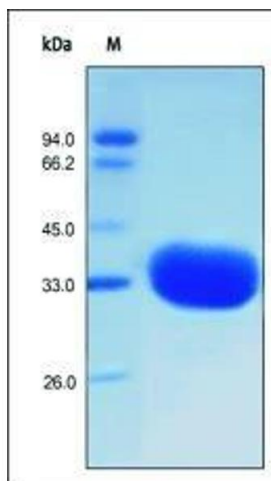
Grenga, Kwilas, Donahue, Farsaci, Hodge: "Inhibition of the angiopoietin/Tie2 axis induces immunogenic modulation, which sensitizes human tumor cells to immune attack." in: **Journal for immunotherapy of cancer**, Vol. 3, pp. 52, (2015) ([PubMed](#)).

Images



ELISA

Image 1. Immobilized Human CD64, His Tag at 10 µg/mL (100 µL/well) can bind Human IgG Fc, Tag Free (ABIN2181271, ABIN2181270) with a linear range of 7-41 ng/mL (QC tested).



SDS-PAGE

Image 2. Human IgG1 Fc, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.