abcam

Product datasheet

Anti-Human IgG antibody [IG266] ab200699

Recombinant

★★★★★ 2 Abreviews 34 References 5 Images

Overview

Product name	Anti-Human IgG antibody [IG266]
Description	Mouse monoclonal [IG266] to Human IgG
Host species	Mouse
Specificity	ab200699 recognizes a protein of 75 kDa, identified as gamma heavy chain of Human immunoglobulins. It does not cross-react with alpha (IgA), mu (IgM), epsilon (IgE), or delta (IgD), heavy chains, T-cells, monocytes, granulocytes, or erythrocytes.
Tested applications	**Suitable for:** WB, Flow Cyt, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Full length native protein (purified) corresponding to Human IgG. P01857, P01859, P01860, P01861.
Positive control	IHC-P: Human colon and tonsil tissue. Flow cyto: Human peripheral blood mononuclear cell (PBMC) cells WB: Human serum, human spleen and tonsil tissue lysates
General notes	This product has switched from a hybridoma to recombinant production method on 14th March 2024. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)

Purity	Protein A purified
Clonality	Monoclonal
Clone number	IG266
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab200699 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

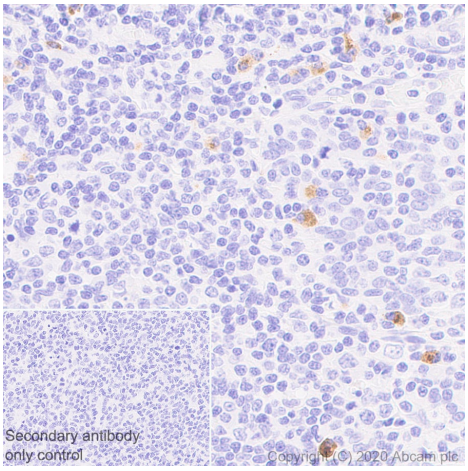
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 36 kDa.
Flow Cyt		1/800.
IHC-P	★★★★★ (2)	1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Relevance IgG is a monomeric immunoglobulin, built of two heavy chains gamma and two light chains. Each molecule has two antigen binding sites. This is the most abundant immunoglobulin and is approximately equally distributed in blood and in tissue liquids, constituting 75% of serum immunoglobulins in humans. This is the only isotype that can pass through the human placenta, thereby providing protection to the fetus in its first weeks of life before its own immune system has developed. It can bind to many kinds of pathogens, for example viruses, bacteria, and fungi, and protects the body against them by complement activation (classic pathway), opsonization for phagocytosis and neutralisation of their toxins. There are 4 subclasses: IgG1 (66%), IgG2 (23%), IgG3 (7%) and IgG4 (4%).

Cellular localization Cell Membrane and Secreted

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human IgG antibody [IG266] (ab200699)

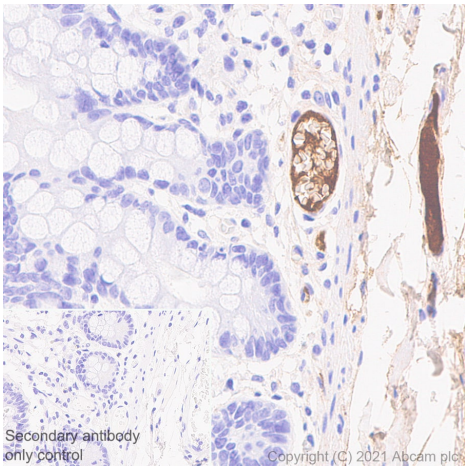
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling Human IgG with ab200699 at 1/1000 (0.831 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Cytoplasmic staining in plasmocyte of human tonsil.
The section was incubated with ab200699 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Human IgG antibody [IG266] (ab200699)

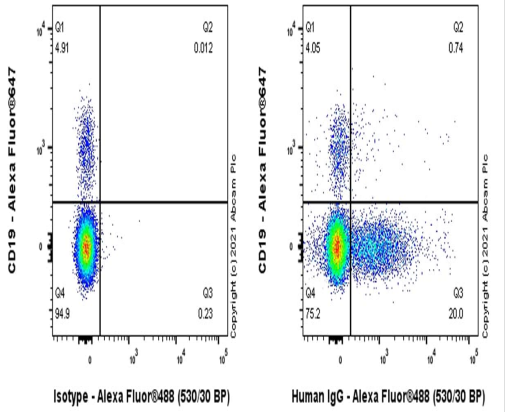
Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Human IgG with ab200699 at 1/1000 (0.831 ug/ml) dilution, followed by a ready to use Goat Anti-Mouse IgG H&L (HRP polymer) (**ab214879**).

Cytoplasmic staining in plasma of human colon.
The section was incubated with ab200699 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Goat Anti-Mouse IgG H&L (HRP polymer) (**ab214879**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins

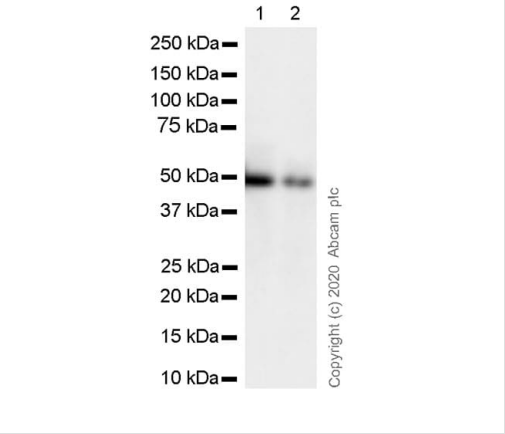


Flow Cytometry - Anti-Human IgG antibody [IG266] (ab200699)

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling Human IgG with ab200699 at 1/800 dilution (0.1 ug) / Right compared with a Mouse monoclonal IgG / Left.

Goat anti mouse IgG (Alexa Fluor® 488, **ab150113**) was used as the secondary antibody at 1/2000 dilution.

Cells were stained with mouse IgG or ab200699. Then stained with anti-CD19 conjugated to Alexa Fluor® 647.
Gated on viable cells.



Western blot - Anti-Human IgG antibody [IG266] (ab200699)

All lanes : Anti-Human IgG antibody [IG266] (ab200699) at 1/1000 dilution

Lane 1 : Human spleen tissue lysate
Lane 2 : Human tonsil tissue lysate

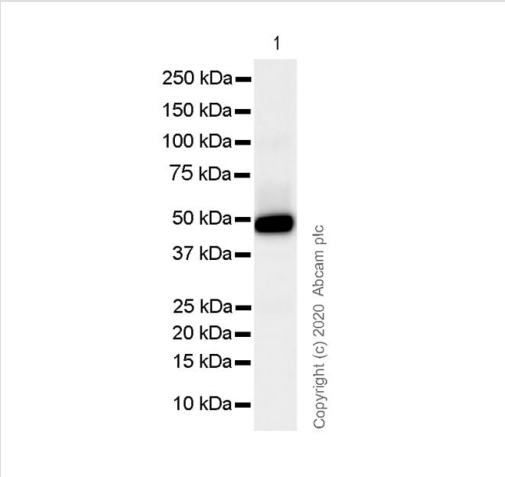
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Anti-mouse IgG for IP (HRP) (**ab131368**) at 1/1000 dilution

Predicted band size: 36 kDa
Observed band size: 50 kDa

Exposure time: 6 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST



Western blot - Anti-Human IgG antibody [IG266] (ab200699)

Anti-Human IgG antibody [IG266] (ab200699) at 1/5000 dilution + Human serum at 10 µg

Secondary

Anti-mouse IgG for IP (HRP) (**ab131368**) at 1/1000 dilution

Predicted band size: 36 kDa

Observed band size: 50 kDa

Exposure time: 8 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST

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