



A Reliable Research Partner in Life Science and Medicine

MHCG Polyclonal Antibody

catalog number: E-AB-40663

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human

Immunogen Recombinant Human MHCG protein expressed by E.coli

Host Rabbit Isotype IgG

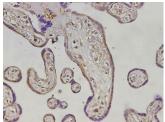
Purification Antigen Affinity Purification

Buffer PBS with 0.05% Proclin300, 1% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

IHC 1:1500-1:3000

Data



Immunohistochemistry of paraffin-embedded Human placenta tissue using MHCG Polyclonal Antibody at dilution of 1:3000(×400)

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

Background

For Research Use Only

Elabscience®

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HLA-G Antibody (4H84) is an IgG1 κ mouse monoclonal HLA-G antibody (also designated HLA major histocompatibility complex, class I, G antibody, human leukocyte antigen (HLA) G antibody, 45 kDa transmembrane class I human leukocyte antigen G antibody, chromosome 6p22 gene complex class 1G antibody, placenta trophoblast marker antibody, or fetal derived placental cell marker antibody) that detects the HLA-G protein of mouse, rat and human origin by WB, IP, IF and IHC(P). HLA-G Antibody (4H84) is available as both the non-conjugated anti-HLA-G antibody form, as well as multiple conjugated forms of anti-HLA-G antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor[®] conjugates. Major histocompatibility complex (MHC), human leukocyte antigen (HLA) molecules are cell-surface receptors that bind foreign peptides and present them to T lymphocytes. MHC class I molecules consist of two polypeptide chains, an α or heavy chain, and a non-covalently associated protein, β-2-microglobulin. Cytotoxic Tlymphocytes bind antigenic peptides presented by MHC class I molecules. Antigens that bind to MHC class I molecules are typically 8-10 residues in length and are stabilized in a peptide binding groove. MHC class II molecules are encoded by polymorphic MHC genes and consist of a non-covalent complex of an a and b chain. Helper T lymphocytes bind antigenic peptides presented by MHC class II molecules. MHC class II molecules bind 13-18 amino acid antigenic peptides. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM and -DO molecules regulate binding of exogenous peptides to class II molecules (HLA-DR) by sustaining a conformation that favors peptide exchange. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of Tlymphocytes.

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