

Anti-Human Chorionic Gonadotropin [AB4] Standard Size Ab00513-10.0

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Kappa

Clone Number: AB4

Alternative Name(s) of Target: hCG; Human chorionic gonadotropin; Choriogonadotropin subunit beta

UniProt Accession Number of Target Protein: P01233

Published Application(s): RIA, ELISA, IHC

Published Species Reactivity: Human

Immunogen: Human chorionic gonadotropin.

Specificity:

Application Notes: The antibody binds specifically to hCG, a hormone produced by a part of the placenta, the syncytiotrophoblast, following implantation. The hormone has an important role during pregnancy, as it interacts with the LHCG receptor in the ovaries to prevent the degeneration of the corpus luteum, and thereby allows the secretion of progesterone during the first trimester. hCG is a heterodimeric glycoprotein, composed of an α and a β domain, of which the α is identical to that of LH and FSH, while the β is unique to hCG. The monoclonal antibody AB4 is specific for the β -subunit, and can be used in the detection of the hormone in pregnancy tests or in the diagnosis of uterine cancer.

Antibody First Published in: de Haard HJ, Kazemier B, van der Bent A, Oudshoorn P, Boender P, van Gemen B, Arends JW, Hoogenboom HR. Absolute conservation of residue 6 of immunoglobulin heavy chain variable regions of class IIA is required for correct folding. Protein Eng. 1998 Dec;11(12):1267-76.

[PMID:9930677](#)

Note on publication: Describes the generation of scFvs from murine monoclonal antibodies, and the effect of several amino acid mutations on the immunoglobulin fold and antigen binding affinity.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.