

Anti-17-Hydroxyprogesterone [101.B11.1] Standard Size Ab00526-10.7

This antibody is in our proprietary AbFab2™ recombinant F(ab2) format - based on Human IgG1 sequence with a short dimerization domain to improve stability and a his tag.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG2a format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human F(ab)2, AbFab2™ His-Tagged, Kappa

Clone Number: 101.B11.1

Alternative Name(s) of Target: 17-OHP; 17alpha-hydroxyprogesterone

UniProt Accession Number of Target Protein:

Published Application(s): EIA, ELISA

Published Species Reactivity: n/a

Immunogen: Mouse 17-OHP.

Specificity: The antibody binds to 17-OHP with a Kd of 2.9 nM reported for the original antibody.

Application Notes: The antibody binds specifically to 17-OHP, an endogenous progestogen which acts as a chemical intermediate in the synthesis of steroid hormones such as corticosteroids, androgens and estrogens. 17-OHP levels are extremely high in patients who suffer from congenital adrenal hyperplasia (CAH), a disorder of the adrenal glands caused by the deficiency of 21-hydroxylase which catalyses the production of cortisol. This results in the accumulation of the cortisol precursors, and in particular of 17-OHP. Monoclonal antibodies that bind specifically to 17-OHP can therefore be used to measure 17-OHP levels in the diagnosis of CAH.

Antibody First Published in: Sawada J, Terao T, Itoh S, Maeda M, Tsuji A, Hosoda H, Nambara T. Production and characterization of monoclonal antibodies to 17 alpha-hydroxyprogesterone. J Steroid Biochem. 1987 Oct;28(4):405-10. [PMID:3312820](#)

Note on publication: Describes the production of hybridoma clones producing antibodies to 17-OHP and the establishment of cross-reactivity with other steroids. A micro-EIA system of 17-OHP using the monoclonal antibodies can be used for the mass-screening of congenital adrenal hyperplasia.

Product Form

Size: 200 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.