

## Anti-17-Hydroxyprogesterone [101.B11.1] Standard Size Ab00526-10.0

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 IgG1, 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:** 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.