

## Anti-17-Hydroxyprogesterone [4B2 (4B2.2.1)] Standard Size Ab02040-10.6

This is a Fab fragment with a his-tag.

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 Fab fragment, His-Tagged, Kappa

**Clone Number:** 4B2 (4B2.2.1)

**Alternative Name(s) of Target:** 17-OH; 17-OHP; 17 $\alpha$ -hydroxyprogesterone

**UniProt Accession Number of Target Protein:**

**Published Application(s):** RIA, ELISA

**Published Species Reactivity:** Human

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with 17-OHP-bovine serum albumin conjugate as an immunogen.

**Specificity:** This antibody binds 17 $\alpha$ -hydroxyprogesterone (17-OHP).

**Application Notes:** This antibody has good affinity for 17-OHP, a chemical intermediate involved in the biosynthesis of many endogenous steroids like androgens, estrogens, glucocorticoids, and mineralocorticoids, as well as neurosteroids. Congenital adrenal hyperplasia (CAH) is an autosomal recessive disorder caused by the deficiency of one of the five enzymes involved in the biosynthesis of corticosteroids. The most common form of the disease is the deficiency of 21-hydroxylase that catalyses the production of cortisol. Due to lack of this enzyme there is an accumulation of high levels of 17 $\alpha$ -hydroxyprogesterone (17-OHP). This antibody is therefore recommended for detection of high levels of 17-OHP caused by CAH. Fluorescence enzyme immunoassay and micro-enzyme immunoassay for 17-OHP showed that 4B2.2.3 has lowest cross reactivity with other steroids (PMID: 3312820).

**Antibody First Published in:** Sawada et al. Production and characterization of monoclonal antibodies to 17 alpha-hydroxyprogesterone. J Steroid Biochem. (1987); 28(4):405-10. [PMID:3312820](#)

**Note on publication:** Describes the generation of this antibody and its cross reactivity with other steroids. A micro enzyme immunoassay was shown to be applicable for the screening of congenital adrenal hyperplasia.

## Product Form

**Size:** 100 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.