

Anti-17-Hydroxyprogesterone [4B2 (4B2.2.1)] Bulk Size Ab02040-2.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: 4B2 (4B2.2.1)

Alternative Name(s) of Target: 17-OH; 17-OHP; 17 α -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 α -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 α -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: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.