

Anti-LHRH [SMI41] Standard Size Ab00922-13.12

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 IgG4-S228P, Kappa

Clone Number: SMI41

Alternative Name(s) of Target: GnRH; LHRH; LNRH; Anti-Gonadotropin-Releasing Hormone; GNRH1; Gonadoliberin; Gonadorelin; luteinizing hormone release hormone; SMI-41; SMI 41

UniProt Accession Number of Target Protein: P30968

Published Application(s): IHC-P, RIA, therapeutic, IHC

Published Species Reactivity: Human

Immunogen: LHRH diacetate tetrahydrate was conjugated to potato acid phosphatase and an emulsion composed of the conjugate and Freund's complete adjuvant was injected into the hind limb of female CAF1 mice. Immune spleen cells were fused with P3-X63-Ag8.653/3 myeloma cells by a modification of the original cell fusion method using polyethylene glycol. A hybridoma screening assays were used to select for high affinity monoclonal antibodies.

Specificity: SMI41 reacts with LHRH with an affinity of 10 pM and is specific for its C-terminal pentapeptide (G-L-R-P-G).

Application Notes: SMI-41 has been used in immunocytochemistry experiments to detect the expression of mature LHRH in the brain detect cells containing mature LHRH peptide (Avigdor 2004). SMI-41 also has been expressed in mice via injection of a replication-incompetent, recombinant adeno-associated virus designed to express the antibody. This has been used to confer long-term infertility in male and female mice (Li 2015).

Antibody First Published in: Knapp and Sternberger High Affinity Monoclonal Antibodies to Luteinizing Hormone-releasing Hormone J Neuroimmunol. 1984 Aug;6(5):361-71. [PMID:6378971](#)

Note on publication: Describes the generation of monoclonal antibodies against Gonadotropin-releasing hormone.

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.