

Anti-Brg1 [4E5] Standard Size Ab00905-10.3

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

This chimeric human antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 4E5

Alternative Name(s) of Target: SMARCA4; alpha-BRG1; BAF190; BAF190A; BRG1; MRD16; RTPS2; SNF2; SNF2L4; SNF2LB; SWI2; hSNF2b; CSS4; SWI/SNF related; matrix associated; actin dependent regulator of chromatin; subfamily a; member 4

UniProt Accession Number of Target Protein: P51532

Published Application(s): IP, WB, IF, IHC

Published Species Reactivity: Human, Mouse

Immunogen: Anti-Brg1 rat monoclonal antibodies were generated based on the rat lymph node method. An 8-week-old female lzm rat was injected via the hind footpads with 200 mL of emulsion containing 100 mg of recombinant mouse Brg1 protein and Freund's complete adjuvant. After 3 weeks, the cells from the lymph nodes of a rat immunized with an antigen were fused with mouse myeloma Sp2/0-Ag14 cells at a ratio of 5:1 in a 50% polyethylene glycol solution. The resulting hybridoma cells were plated onto 96-wellplates and cultured in HAT selection medium. After 10 days post-fusion, the hybridoma supernatants were screened by means of an ELISA against GST-fused Brg1. Positive clones were subcloned and rescreened by ELISA and immunoblotting.

Specificity: mAb 4E5 specifically recognises alpha-Brg1

Application Notes:

Antibody First Published in: Ohkawa et al. Production of a Rat Monoclonal Antibody Against Brg1 HYBRIDOMA Volume 28, Number 6, 2009 [PMID:20025509](#)

Note on publication: Describes the role of BRG1 in the SWI/SNF complex as a DNA-dependent ATPase for chromatin remodelling, and mentions the need for a monoclonal antibody to distinguish BRG1 from BRM, which are highly similar.

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.