

Anti-Brg1 [4E5] Standard Size Ab00905-1.1

This chimeric mouse 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: Mouse IgG1, 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 Izm 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.