Human Brg1 Antibody

Recombinant Monoclonal Rabbit IgG Clone #2135A
Catalog Number: MAB5738

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Brg1 in direct ELISAs and Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2135A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	*E. coli*-derived recombinant human Brg1 Gln673-Asn774 Accession # P51532
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

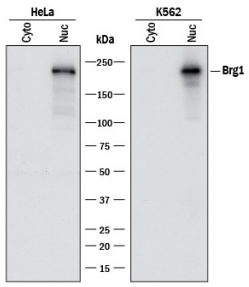
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Immunohistochemistry	1-25 µg/mL	See Below
Knockout Validated	Brg1 is specifically detected in HEK293T human embryonic kidney parental cell line but is not detectable in Brg1 knockout HEK293T cell line.	

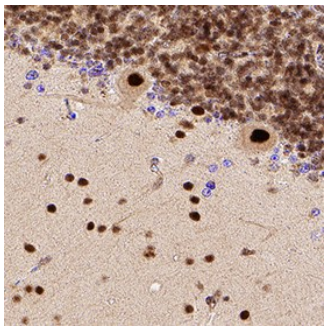
DATA

Western Blot



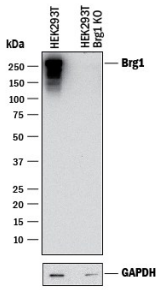
Detection of Human Brg1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and K562 human chronic myelogenous leukemia cell line. Gels were loaded with 30 µg of cytoplasmic (Cyto) and 15 µg of nuclear extracts (Nuc). PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Brg1 Monoclonal Antibody (Catalog # MAB5738) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Brg1 at approximately 220 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



Brg1 in Human Brain. Brg1 was detected in immersion fixed paraffin-embedded sections of human brain (cerebellum) using Rabbit Anti-Human Brg1 Monoclonal Antibody (Catalog # MAB5738) at 1 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal nuclei. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Knockout Validated



Western Blot Shows Human Brg1 Specificity by Using Knockout Cell Line. Western blot shows lysates of HEK293T human embryonic kidney parental cell line and Brg1 knockout HEK293T cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Brg1 Monoclonal Antibody (Catalog # MAB5738) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Brg1 at approximately 250 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in knockout HEK293T cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

Human Brg1 Antibody

Recombinant Monoclonal Rabbit IgG Clone #2135A
Catalog Number: MAB5738

BACKGROUND

Brg1 (Brm/Swi2-related gene 1), also known as SMARCA4 (Swi/SNF-related matrix-associated actin-dependent regulator of chromatin, subfamily A, member 4), SNF2L4 and SNF2β, is a 205 kDa member of the SNF2 helicase family of molecules. It is a ubiquitously expressed, nuclear-localized chromatin remodeling ATPase that, depending upon its associated complex, may both facilitate and inhibit gene transcription. Human SMARCA4 is 1647 amino acids (aa) in length, and contains an HSA domain (aa 460-532), one BRK region (aa 610-654), six potential phosphoserine sites between aa 610-662, a DEXDc domain that unwinds RNA and DNA (aa 774-913), one Bromo domain (aa 1477-1547) and eight potential phosphoserine sites between aa 1570-1644.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449