Human Brg1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5738

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Brg1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
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 as a 0.2 μm filtered solution in PBS.

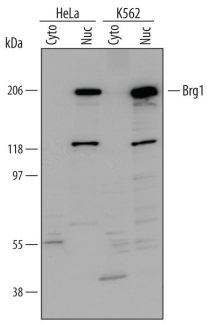
APPLICATIONS

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	2 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

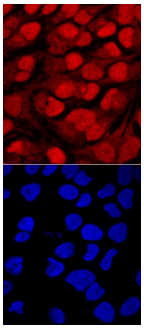
DATA

Western Blot



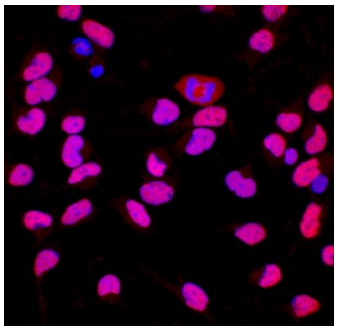
Detection of Human Brg1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line and K562 human chronic myelogenous leukemia cell line, cytoplasmic and nuclear extracts. PVDF membrane was probed with 2 µg/mL Goat Anti-Human Brg1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5738) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band for Brg1 was detected at approximately 205 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Brg1 in HeLa Human Cell Line. Brg1 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Goat Anti-Human Brg1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5738) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red, upper panel; Catalog # NL001) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunocytochemistry



Brg1 in Rat Cortical Stem Cells. Brg1 was detected in immersion fixed undifferentiated rat cortical stem cells using Goat Anti-Human Brg1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5738) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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.

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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.

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