

Anti-BRG1 Antibody [A5C9-R]

HA601345



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 185 kDa
Clone number:	A5C9-R

Description: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. Component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating the calcium-dependent release of a repressor complex and the recruitment of an activator complex. In resting neurons, transcription of the c-FOS promoter is inhibited by SMARCA4-dependent recruitment of a phospho-RB1-HDAC repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex. At the same time, there is increased recruitment of CREBBP to the promoter by a CREST-dependent mechanism, which leads to transcriptional activation. The CREST-BRG1 complex also binds to the NR2B promoter, and activity-dependent induction of NR2B expression involves the release of HDAC1 and recruitment of CREBBP.

Immunogen: Synthetic peptide within human BRG1 aa 230-280.

Positive control: HeLa cell lysate, K-562 cell lysate, 293T cell lysate, NIH/3T3 cell lysate, C6 cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: P51532 Human | Q3TKT4 Mouse | Q8K1P7 Rat

Recommended Dilutions:

WB 1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

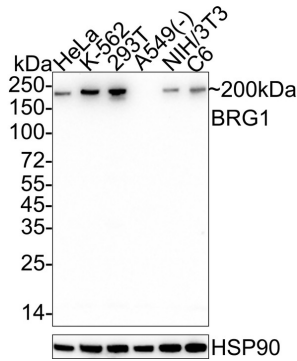
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of BRG1 on different lysates with Mouse anti-BRG1 antibody (HA601345) at 1/1,000 dilution.



Lane 1: HeLa cell lysate
 Lane 2: K-562 cell lysate
 Lane 3: 293T cell lysate
 Lane 4: A549 cell lysate (negative)
 Lane 5: NIH/3T3 cell lysate
 Lane 6: C6 cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 185 kDa
 Observed band size: 200 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA601345) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Park J.I. et. al. Telomerase modulates Wnt signalling by association with target gene chromatin. Nature 460:66-72(2009).

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