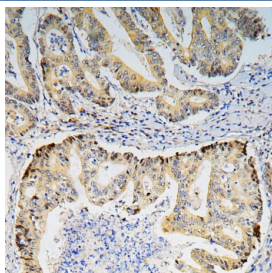


BRG1 Antibody / SMARCA4 [clone 3F4] (RQ5493)

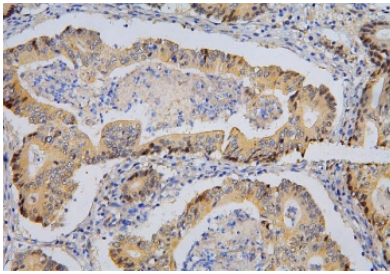
Catalog No.	Formulation	Size
RQ5493	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

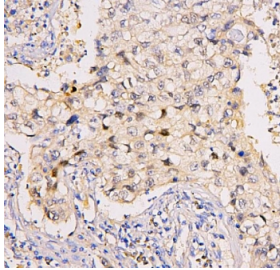
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	3F4
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P51532
Localization	Nuclear
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This BRG1 antibody is available for research use only.



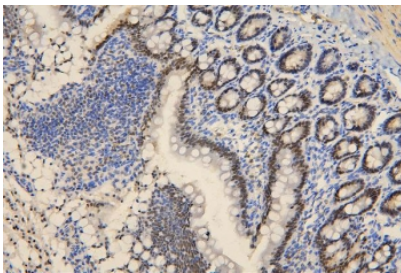
IHC staining of FFPE human rectal cancer with BRG1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



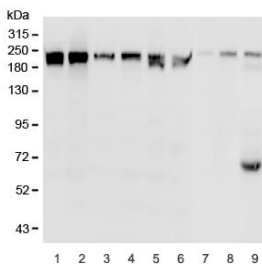
IHC staining of FFPE human rectal cancer with BRG1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



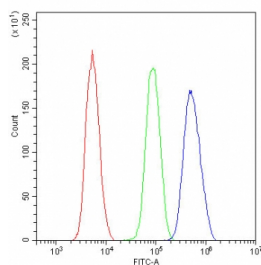
IHC staining of FFPE human lung cancer with BRG1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



IHC staining of FFPE rat intestine with BRG1 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



Western blot testing of human 1) Raji, 2) K562, 3) HL-60, 4) Caco-2, 5) HeLa, 6) HepG2, 7) rat brain, 8) mouse brain and 9) mouse lung with BRG1 antibody. Predicted molecular weight: 185-190 kDa, observed at 200-220 kDa.



Flow cytometry testing of human U-2 OS cells with BRG1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= BRG1 antibody.

Description

Transcription activator BRG1 also known as ATP-dependent helicase SMARCA4 is a protein that in humans is encoded by the SMARCA4 gene. The protein encoded by this gene is a member of the SWI/SNF family of proteins and is similar to the brahma protein of *Drosophila*. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the BRG1 antibody should be determined by the researcher.

Immunogen

A human recombinant protein (amino acids Q555-E763) was used as the immunogen for the BRG1 antibody.

Storage

After reconstitution, the BRG1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.