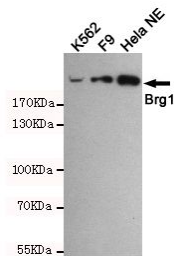


**BRG1****Mouse monoclonal Antibody****#53620****Catalog Number:** 53620**Amount:** 100µg/100µl**Swiss-Prot No. :** P51532**Gene name:** smarca4**Gene id:** 6597**Clone Number:** 6D7-F7-B6**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human BRG1 protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of BRG1 and does not cross-react with related proteins**Reactivity:** Human, Mouse**Applications:** Predicted MW: 220kd WB: 1:1000 ICC/IF:1:50

Western blot detection of BRG1 in HeLa NE, F9 and K562 cell lysates using BRG1 mouse mAb (1:1000 diluted). Predicted band size: 220KDa. Observed band size: 220KDa.

Background:

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