**SMARCA4/BRG1 Monoclonal ANTIBODY**

**Catalog Number:** 66561-1-Ig

---

### Basic Information

- **Catalog Number:** 66561-1-Ig
- **Size:** 150 μg/150 μl
- **Source:** Mouse
- **Isotype:** IgG2b
- **Purification Method:** Protein A purification
- **Immunogen Catalog Number:** AG16256

#### GenBank Accession Number:

**BC192586**

**GeneID (NCBI):** 6597

- **Full Name:** SWI/SNF related, matrix associated, actin-dependent regulator of chromatin, subfamily a, member 4
- **Calculated MW:** 1647aa, 185 kDa
- **Observed MW:** 185 kDa

### Applications

- **Tested Applications:** IF, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** Human, rat
- **Cited Species:** human

### Background Information

SMARCA4, also named as BAF190A, BRG1, SNF2B and SNF2L4, belongs to the SNF2/RAD54 helicase family. SMARCA4 is a transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. It is a component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. It is also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transexpression of the CYP27B1 gene.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>C C Liu</td>
<td>31041589</td>
<td>Inflammation</td>
<td>WB, IF</td>
</tr>
</tbody>
</table>

### Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

---

For technical support and original validation data for this product, please contact:
- T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1 (312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Various lysates were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMLRCA antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

IP result of anti-SMARC4/IP:66561-1-Ig, 5ug Detection:66561-1-Ig 1:3000) with HeLa cells lysate 3200 ug

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66561-1-Ig (SMLRCA antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)