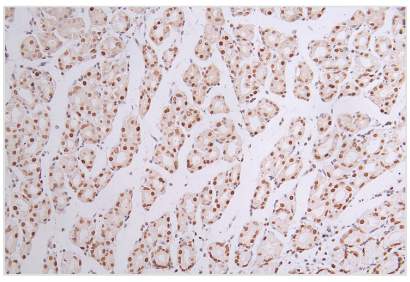
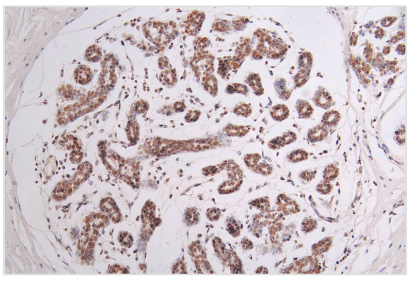
# SMARCA4 Recombinant Monoclonal Antibody

| | |
|---|---|
| **Product Code** | CSB-RA090878A0HU |
| **Storage** | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| **Uniprot No.** | P51532 |
| **Immunogen** | A synthesized peptide derived from Human SMARCA4 |
| **Species Reactivity** | Human |
| **Tested Applications** | ELISA, IHC, IF, FC; Recommended dilution: IHC:1:50-1:200, IF:1:50-1:200, FC:1:50-1:200 |
| **Form** | Liquid |
| **Conjugate** | Non-conjugated |
| **Storage Buffer** | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purification Method** | Affinity-chromatography |
| **Isotype** | Rabbit IgG |
| **Clonality** | Monoclonal |
| **Product Type** | Recombinant Antibody |
| **Immunogen Species** | Homo sapiens (Human) |
| **Research Area** | Epigenetics and Nuclear Signaling?Neuroscience?Cancer;Stem cells |
| **Gene Names** | SMARCA4 |
| **Clone No.** | 22F3 |

**Image**

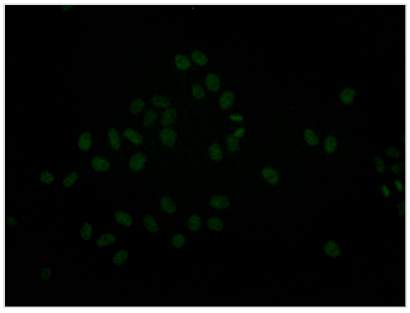


IHC image of CSB-RA090878A0HU diluted at 1:50 and staining in paraffin-embedded human stomach tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.44% DAB.

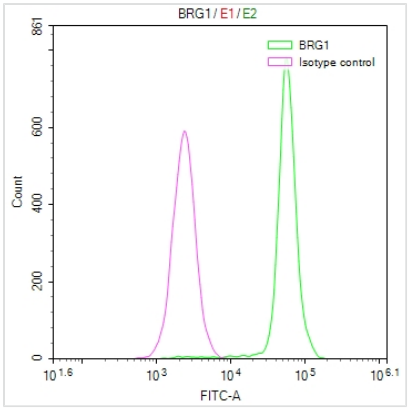


IHC image of CSB-RA090878A0HU diluted at 1:50 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and

visualized using 0.44% DAB.



Immunofluorescence staining of Hela with CSB-RA090878A0HU at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 511-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).




Overlay Peak curve showing Hela cells stained with CSB-RA090878A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*$10^6$cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1μg/1*$10^6$cells) used under the same conditions. Acquisition of >10,000 events was performed.

## Description

The SMARCA4 recombinant monoclonal antibody is produced by in vitro cloning. Genes for the heavy and light chains of the SMARCA4 antibody are inserted into expression vectors that are transfected into the host cell for recombinant expression in cell culture. The SMARCA4 recombinant monoclonal antibody is purified from the tissue culture supernatant of transfected host cell lines through affinity chromatography. It can react with human SMARCA4 protein and is suitable for ELISA, IHC, IF, and FC applications.

SMARCA4 is a key component of the SWI/SNF chromatin-remodeling complex, and its primary function is to regulate gene expression by modifying chromatin structure. This activity has wide-ranging implications for cell differentiation, development, cancer suppression, DNA repair, and various other biological processes in both normal and disease states.