Human SART1 Antibody

Monoclonal Mouse IgG_1 Clone # 865709

Catalog Number: MAB8034

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SART1 in ELISAs and Western Blots. Detects mouse SART1 in Western Blots.
Source	Monoclonal Mouse IgG_1 Clone # 865709
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human SART1 Asn647-Lys800 Accession # O43290
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

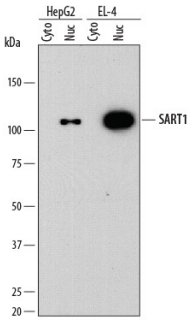
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

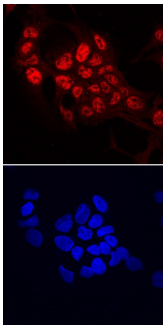
DATA

Western Blot



Detection of Human and Mouse SART1 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and EL-4 mouse lymphoblast cell line. Gels were loaded with 20 µg of HepG2 and 30 µg of EL-4 cytoplasmic (Cyto) extracts and 10 µg of HepG2 and 15 µg of EL-4 nuclear (Nuc) extracts. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human SART1 Monoclonal Antibody (Catalog # MAB8034) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for SART1 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



SART1 in HepG2 Human Cell Line. SART1 was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Mouse Anti-Human SART1 Monoclonal Antibody (Catalog # MAB8034) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Hypoxia-associated factor (HAF), also known as SART1, is a widely expressed 125 kDa intracellular protein that promotes assembly of the U2-type pre-mRNA spliceosome. SART1 is also an E3 ubiquitin ligase that promotes the ubiquitination and degradation of HIF-1 alpha. In contrast, it enhances the transcriptional activity of HIF-2 alpha. SART1 is upregulated in many tumor types and enables tumor growth during chronic hypoxia. Within amino acids 647-800, human SART1 shares 100% aa sequence identity with mouse and rat SART1.

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