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SRA Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1057a

Product Information

Application	WB, IHC, E
Primary Accession	Q9HD15
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1D4H8
Isotype	IgG1
Calculated MW	24400
Description	Steroid receptor RNA activator 1 (SRA), with 237-amino acid protein (about 27kDa), belongs to the growing family of functional non-coding RNAs. SRA was originally described as the first functional noncoding RNA able to specifically coactivate the activity of steroid receptors. Specifically, SRA exists as both an RNA transcript that forms a complex with steroid receptor coactivator-1 and as a stably expressed protein. Its expression is strongly up-regulated in many human tumors of the breast, uterus, and ovary, suggesting a potential role in pathogenesis. Although coactivation of steroid-dependent transcription by SRA is accompanied by a proliferative response, overexpression is not in itself sufficient to induce turmorigenesis.
Immunogen	Purified recombinant fragment of SRA expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	10011
Other Names	Steroid receptor RNA activator 1, Steroid receptor RNA activator protein, SRAP, SRA1 (HGNC:11281)
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SRA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SRA1 (HGNC:11281)
Function	Functional RNA which acts as a transcriptional coactivator that selectively enhances steroid receptor-mediated transactivation ligand-independently through a mechanism involving the modulating N- terminal domain (AF-1) of steroid receptors. Also mediates transcriptional coactivation of steroid receptors ligand-dependently through the steroid-binding domain (AF-2). Enhances cellular proliferation and differentiation and promotes apoptosis in vivo. May play a role in tumorigenesis.
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Highly expressed in liver and skeletal muscle and to a lesser extent in brain. Also expressed in both normal and tumorigenic breast epithelial cell lines. Significantly up-regulated in human tumors of the breast, ovary, and uterus

References

1. Rainer B. Lanz, Steven S. Chua, Niall Barron. Mol. Cell. Biol, Oct 2003; 23: 7163 - 7176. 2. Shilpa Chooniedass-Kothari, Mohammad Kariminia Hamedani, Sandy Troup. Int J Cancer. 2006 Feb 15;118(4):1054-9 3. S. Chooniedass-Kothari, E. Emberley, M. K. Hamedani. FEBS Lett. 2004 May 21;566(1-3):43-7

Images

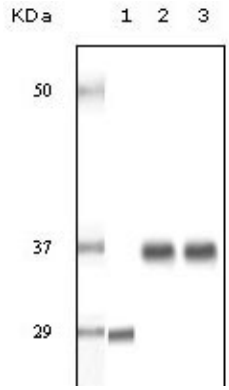


Figure 1: Western blot analysis using SRA mouse mAb against truncated SRA recombinant protein (1), human ovary cancer tissue lysate (2) and A431 cell lysate (3).

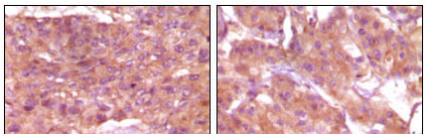


Figure 2: Immunohistochemical analysis of paraffin-embedded human skin carcinoma (left) and breast carcinoma (right), showing cytoplasmic and membrane localization using SRA mouse mAb with DAB staining.

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