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HAS3 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1707a

Product Information

Application	WB, IHC, FC, E
Primary Accession	O00219
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3C9
Isotype	IgG1
Calculated MW	62998
Description	The protein encoded by this gene is involved in the synthesis of the unbranched glycosaminoglycan hyaluronan, or hyaluronic acid, which is a major constituent of the extracellular matrix. This gene is a member of the NODC/HAS gene family. Compared to the proteins encoded by other members of this gene family, this protein appears to be more of a regulator of hyaluronan synthesis. Alternative splicing results in multiple transcript variants.
Immunogen	Purified recombinant fragment of human HAS3 expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	3038
Other Names	Hyaluronan synthase 3, 2.4.1.212, Hyaluronate synthase 3, Hyaluronic acid synthase 3, HA synthase 3, HAS3
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000
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	HAS3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HAS3 (HGNC:4820)

Function	Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential to hyaluronan synthesis a major component of most extracellular matrices that has a structural role in tissues architectures and regulates cell adhesion, migration and differentiation. This is one of three isoenzymes responsible for cellular hyaluronan synthesis.
Cellular Location	Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:O08650}; Multi-pass membrane protein. Early endosome. Note=Travels from endoplasmic reticulum (ER), Golgi to plasma membrane (PubMed:26883802). Actives only when present in plasma membrane (By similarity). O-GlcNAcylation controls its membrane localization (PubMed:26883802). A rapid recycling of HAS3 between plasma membrane and endosomes is controlled by the cytosolic levels of UDP-GlcUA and UDP-GlcNAc (PubMed:26883802) {ECO:0000250|UniProtKB:O08650, ECO:0000269|PubMed:26883802}

References

BMC Cancer. 2009 May 12;9:143. BMC Cancer. 2010 Sep 27;10:512.

Images

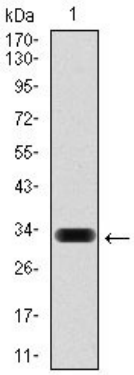


Figure 1: Western blot analysis using HAS3 mAb against human HAS3 (AA: 312-364) recombinant protein. (Expected MW is 32 kDa)

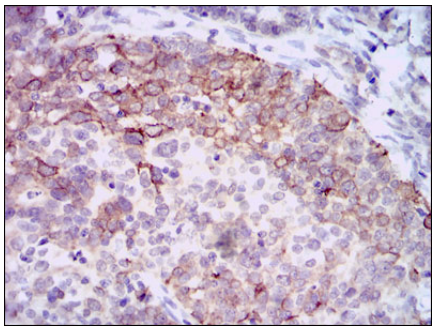


Figure 2: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using HAS3 mouse mAb with DAB staining.

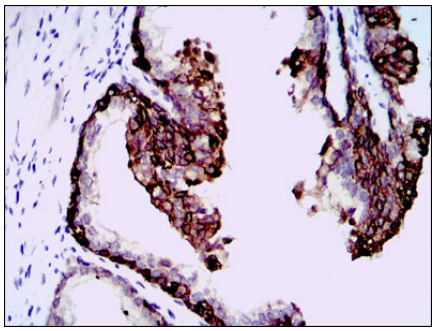
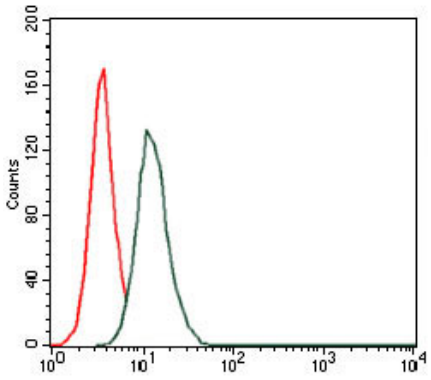


Figure 3: Immunohistochemical analysis of paraffin-embedded prostate tissues using HAS3 mouse mAb with DAB staining.

Figure 4: Flow cytometric analysis of HeLa cells using HAS3 mouse mAb (green) and negative control (red).



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.