

# HAS3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18700c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">O00219</a>
<b>Other Accession</b>	<a href="#">O08650</a> , <a href="#">NP_005320.2</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB39535
<b>Calculated MW</b>	62998
<b>Antigen Region</b>	137-164

## Additional Information

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<b>Gene ID</b>	3038
<b>Other Names</b>	Hyaluronan synthase 3, Hyaluronate synthase 3, Hyaluronic acid synthase 3, HA synthase 3, HAS3
<b>Target/Specificity</b>	This HAS3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-164 amino acids from the Central region of human HAS3.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	HAS3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	HAS3 ( <a href="#">HGNC:4820</a> )
<b>Function</b>	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). Active 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}

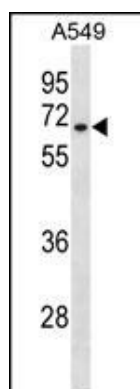
## Background

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.

## References

Dunn, K.M., et al. Surgery 145(3):322-329(2009)  
Nykopp, T.K., et al. BMC Cancer 9, 143 (2009) :  
Nair, S., et al. J. Nephrol. 21(3):400-405(2008)  
Campo, G.M., et al. Mol. Cell. Biochem. 292 (1-2), 169-178 (2006) :  
Grskovic, B., et al. Biochim. Biophys. Acta 1760(6):890-895(2006)

## Images



HAS3 Antibody (Center) (Cat. #AP18700c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the HAS3 antibody detected the HAS3 protein (arrow).

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