Data Sheet (Cat.No.TMAB-00829)

Anti-HAS1 Polyclonal Antibody

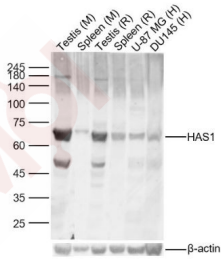
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Pig,Cow,Sheep)
Molecular Weight:	Theoretical: 65 kDa. Actual: 65 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

Sample:
Lane 1: Mouse Testis Lysates
Lane 2: Mouse Spleen Lysates
Lane 3: Rat Testis Lysates
Lane 4: Rat Spleen Lysates
Lane 5: Human U-87 MG cell Lysates
Lane 6: Human DU145 cell Lysates
Primary: Anti-HAS1 (TMAB-00829) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 65 kDa
Observed band size: 65 kDa



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Hyaluronan synthase 1
Antigen Species:	Human
Gene ID:	3036
Uniprot ID:	Q92839
Synonyms:	Hyaluronan synthase 1;has1;Hyaluronate synthase 1;Hyaluronic acid synthase 1 (HA synthase 1)
Biology Area:	Extracellular Matrix,Stem cells,Axis formation and symmetry,ECM Proteins,Neurogenesis,Other Enzymes

Research Background

HAS1, HAS2 and HAS3 are HA Synthase proteins that synthesize HA (Hyaluronan or hyaluronic acid). The extracellular matrix in most vertebrates express HA, which is a high molecular weight linear polysaccharide composed of alternating glucuronic acid and N-acetylglucosamine residues linked by beta-1,3 and beta-1,4 glycosidic bonds. The three HAS genes show distinct patterns of expression during development and their protein products play significantly different roles in the formation of the HA matrix. Both HAS1 and HAS2 synthesize high molecular weight HA, whereas HAS3 produces lower molecular weight HA. The expression of the three HAS isoforms is more prominent in growing cells than in resting cells and is differentially regulated by various stimuli, suggesting distinct functional roles of the three proteins. HAS1 mRNA shows predominant expression in bone marrow mesenchymal progenitor cells and synovial cells.

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