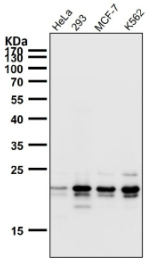
HN1 Antibody / JPT1 / Hematological and neurological expressed 1 [clone 31J27] (FY12957)

Catalog No.	Formulation	Size
FY12957	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

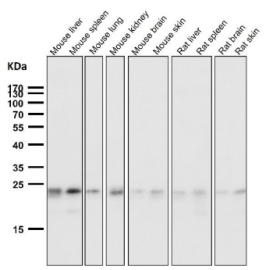
Recombinant RABBIT MONOCLONAL

Bulk quote request

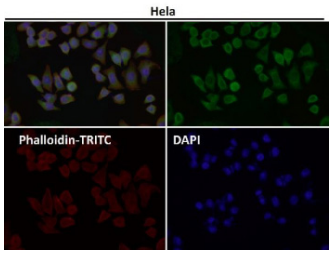
Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31J27
Purity	Affinity chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q9UK76
Applications	Flow Cytometry: 1:50 Immunofluorescence: 1:50-1:200 Immunocytochemistry/Western blot: 1:500-1:2000
Limitations	This HN1 antibody is available for research use only.



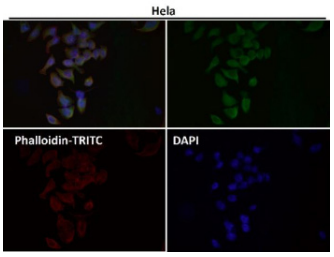
Western blot testing of human samples using the HN1 antibody at 1:1000 dilution for 1 hour at room temperature. Predicted molecular weight: 16-20 kDa (two isoforms).



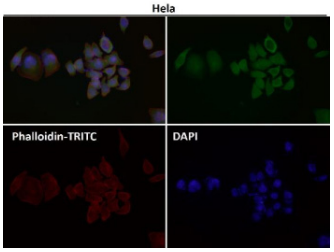
Western blot testing of mouse/rat samples using the HN1 antibody at 1:1000 dilution for 1 hour at room temperature. Predicted molecular weight: 16-20 kDa (two isoforms).



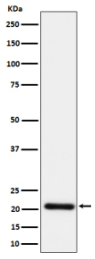
Immunofluorescent analysis using the HN1 antibody (green) at 1:50 dilution.



Immunofluorescent analysis using the HN1 antibody (green) at 1:150 dilution.



Immunofluorescent analysis using the HN1 antibody (green) at 1:500 dilution.



Western blot analysis of HN1 expression in human HeLa cell lysate using HN1 antibody. Predicted molecular weight: 16-20 kDa (two isoforms).

Description

HN1 antibody detects Hematological and neurological expressed 1, encoded by the HN1 gene. HN1 is a conserved protein expressed in many tissues and has been implicated in cell growth, differentiation, and signaling. Although its precise biochemical function remains under investigation, research suggests that Hematological and neurological expressed 1 may act as a scaffolding or regulatory protein influencing cytoskeletal organization and signal transduction. HN1 antibody provides an important reagent for characterizing this protein's role in normal physiology and disease contexts, particularly in hematopoietic and neurological systems where it is strongly expressed.

Studies have shown that Hematological and neurological expressed 1 participates in proliferation and survival pathways,

potentially through interaction with kinases and growth factor receptors. Detection with HN1 antibody has revealed changes in expression during cell cycle progression and differentiation, supporting the idea that this protein integrates extracellular signals with cellular responses. In hematopoietic cells, HN1 may regulate developmental transitions, while in the nervous system, it is linked to neuronal outgrowth and plasticity. Its broad expression pattern suggests that HN1 contributes to multiple cellular functions beyond its namesake tissues.

In cancer research, HN1 has drawn attention as a marker of poor prognosis in several malignancies. Elevated levels have been reported in breast, lung, and liver cancers, where it correlates with increased proliferation and invasiveness. Research using HN1 antibody has demonstrated that silencing or overexpression of HN1 alters tumor cell behavior, implicating it in oncogenic pathways. Because of its association with tumor growth and survival, Hematological and neurological expressed 1 is being investigated as a potential biomarker and therapeutic target.

HN1 antibody is widely used in western blotting, immunohistochemistry, and immunofluorescence. Western blotting identifies expression changes under experimental conditions such as growth factor stimulation. Immunohistochemistry demonstrates tissue and tumor specific localization, while immunofluorescence reveals cytoplasmic and nuclear distribution. These applications make HN1 antibody versatile for investigating fundamental biology and translational cancer research.

By supplying validated HN1 antibody reagents, NSJ Bioreagents supports discovery of the functions of Hematological and neurological expressed 1, ensuring that researchers can explore its role in cell signaling, differentiation, and disease progression.

Application Notes

Optimal dilution of the HN1 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human HN1 was used as the immunogen for the HN1 antibody.

Storage

Store the HN1 antibody at -20oC.

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