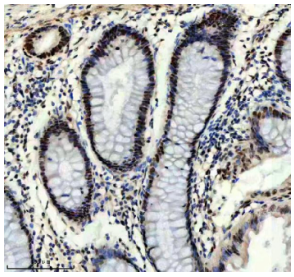
Prospero homeobox protein 1 Antibody / PROX1 [clone AOGA-16] (RQ8881)

Catalog No.	Formulation	Size
RQ8881	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

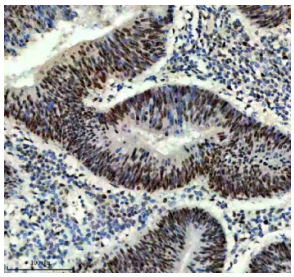
Recombinant RABBIT MONOCLONAL

Bulk quote request

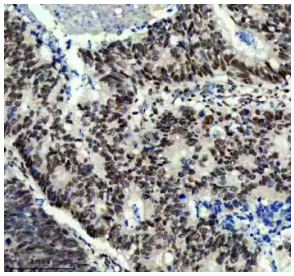
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AOGA-16
Purity	Affinity chromatography
UniProt	Q92786
Localization	Nuclear
Applications	Western blot: 1:500-1:2000 Immunohistochemistry (FFPE): 1:50-1:200
Limitations	This Prospero homeobox protein 1 antibody is available for research use only.



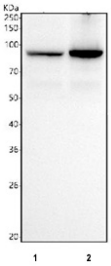
IHC staining of FFPE human colon tissue with Prospero homeobox protein 1 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon cancer tissue with Prospero homeobox protein 1 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colon cancer tissue with Prospero homeobox protein 1 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HepG2 and 2) human SH-SY5Y cell lysate with Prospero homeobox protein 1 antibody. Predicted molecular weight is 83 kDa, commonly observed at 80-110 kDa.

Description

PROX1 is a homeobox transcription factor that orchestrates cell fate programs by binding target DNA motifs and recruiting co-regulators to modulate chromatin accessibility. It is widely studied for its roles in developmental patterning and maintenance of specialized cell identities, particularly within endothelial and neural lineages.

In vascular biology, PROX1 is a master regulator of lymphatic endothelial specification and maintenance, aligning gene expression with signaling inputs that guide vessel identity, remodeling, and tissue fluid balance. Beyond endothelium, PROX1 contributes to organ development and context-dependent transcriptional networks that shape differentiation, metabolism, and tissue architecture.

The **Prospero homeobox protein 1 antibody** enables specific detection of endogenous PROX1 in applications such as immunohistochemistry, immunofluorescence, western blot, and immunoprecipitation. Researchers use the Prospero homeobox protein 1 antibody from NSJ Bioreagents to quantify protein abundance, assess nuclear localization, and evaluate pathway engagement across primary tissues and model systems. With high specificity and consistent performance, the Prospero homeobox protein 1 antibody supports rigorous studies of transcriptional regulation, vascular biology, and cell differentiation.

Application Notes

Optimal dilution of the Prospero homeobox protein 1 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to PROX1 protein was used as the immunogen for the Prospero homeobox protein 1 antibody.

Storage

The Prospero homeobox protein 1 antibody can be stored at -20oC.

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