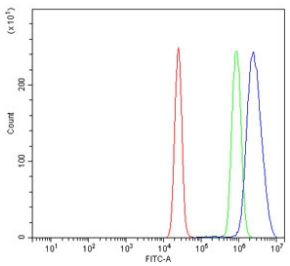
Prospero homeobox protein 1 Antibody / PROX1 (RQ6790)

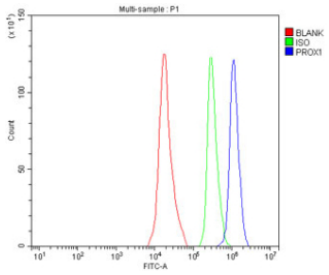
Catalog No.	Formulation	Size
RQ6790	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

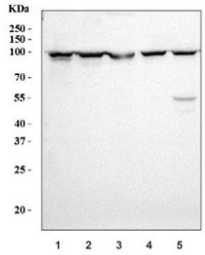
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q92786
Localization	Nuclear
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-3ug/million cells Immunofluorescence: 5ug/ml Immuoprecipitation: 2ug/500ug of lysate Direct ELISA: 0.1-0.5ug/ml
Limitations	This Prospero homeobox protein 1 antibody is available for research use only.



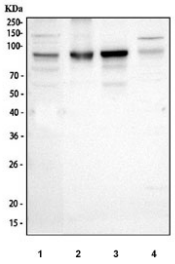
Flow cytometry testing of fixed and permeabilized human K562 cells with Prospero homeobox protein 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Prospero homeobox protein 1 antibody.



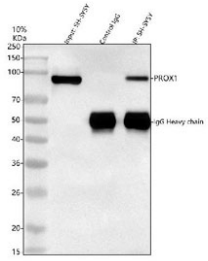
Flow cytometry testing of fixed and permeabilized human SH-SY5Y cells with Prospero homeobox protein 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Prospero homeobox protein 1 antibody.



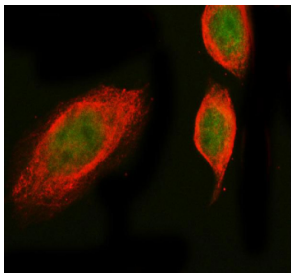
Western blot testing of 1) human HepG2, 2) human 293T, 3) human K562, 4) human PC-3 and 5) rat brain tissue lysate with Prospero homeobox protein 1 antibody. Predicted molecular weight is 83 kDa, observed at 80-110 kDa.



Western blot testing of 1) human HepG2, 2) human HUH7, 3) human SH-SY5Y and 4) rat RH35 cell lysate with Prospero homeobox protein 1 antibody. Predicted molecular weight is 83 kDa, observed at 80-110 kDa.



Immunoprecipitation of Prospero homeobox protein 1 protein from 500ug of human SH-SY5Y whole cell lysate with 2ug of Prospero homeobox protein 1 antibody.



Immunofluorescent staining of FFPE human SiHa cells with Prospero homeobox protein 1 antibody (green) and Alpha Tubulin mAb (red). HIER: steam section in pH6 citrate buffer for 20 min.

Description

Prospero homeobox protein 1, also called PROX1 is a protein that in humans is encoded by the PROX1 gene. This gene is mapped to 1q32.3. The protein encoded by this gene is a member of the homeobox transcription factor family. Members of this family contain a homeobox domain that consists of a 60-amino acid helix-turn-helix structure that binds DNA and RNA. The protein encoded by this gene is conserved across vertebrates and may play an essential role during development. Altered levels of this protein have been reported in cancers of different organs, such as colon, brain, blood, breast, pancreas, liver and esophagus.

Application Notes

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

Immunogen

Recombinant human protein (amino acids E51-E737) was used as the immunogen for the Prospero homeobox protein 1 antibody.

Storage

After reconstitution, the Prospero homeobox protein 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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