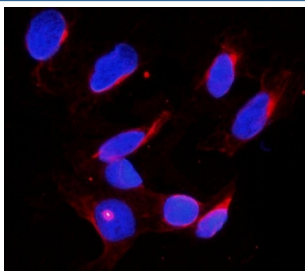


DDX4 Antibody / VASA / MVH (RQ5635)

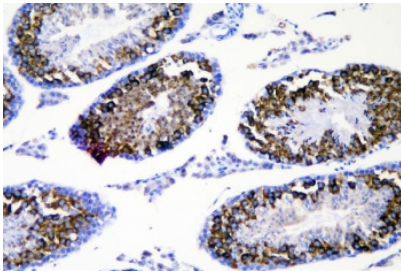
Catalog No.	Formulation	Size
RQ5635	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

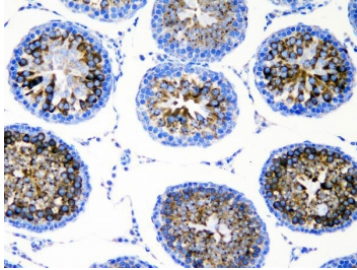
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9NQI0
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This MVH antibody is available for research use only.



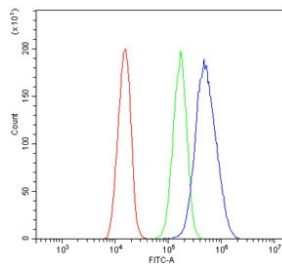
Immunofluorescent staining of FFPE human U-2 OS cells with DDX4 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



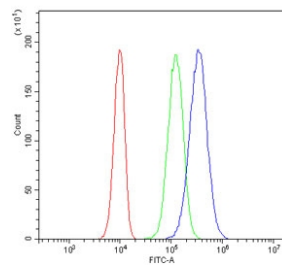
IHC staining of FFPE mouse testis with DDX4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



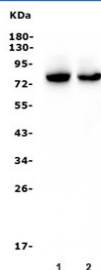
IHC staining of FFPE rat testis with DDX4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



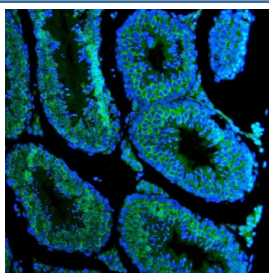
Flow cytometry testing of human SiHa cells with DDX4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDX4 antibody.



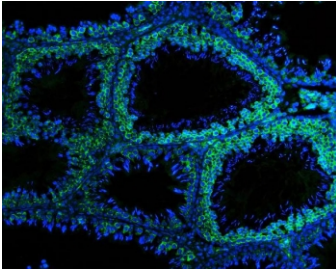
Flow cytometry testing of human PC-3 cells with DDX4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DDX4 antibody.



Western blot testing of 1) rat testis and 2) mouse testis lysate with DDX4 antibody. Predicted molecular weight ~79 kDa.



Immunofluorescent staining of FFPE mouse testis tissue with DDX4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.



Immunofluorescent staining of FFPE rat testis tissue with DDX4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.

Description

DDX4 (DEAD/H BOX 4), also known as VASA. The deduced 724-amino acid VASA protein contains the 8 conserved domains found in all known DEAD box proteins. The amino acid sequence in this core region shows greater similarity to VASA homologs in other species than to other human DEAD box proteins. By radiation hybrid analysis, Castrillon et al.(2000) mapped the VASA gene to 5q. By fluorescence in situ hybridization, they refined the localization to 5q11.2-q12. This region is syntenic to the distal end of mouse chromosome 13, where the mouse VASA homolog(Ddx4) resides(Abe and Noce, 1997). Using a combination of proteomics, cytology, and functional analysis in *C. elegans*, Chu et al.(2006) reduced 1,099 proteins copurified with spermatogenic chromatin to 132 proteins for functional analysis.

Application Notes

Optimal dilution of the DDX4 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D3-D666) was used as the immunogen for the DDX4 antibody.

Storage

After reconstitution, the DDX4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.