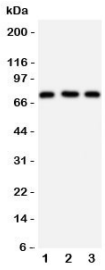
VASA Antibody / DDX4 (R31067)

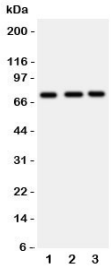
Catalog No.	Formulation	Size
R31067	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

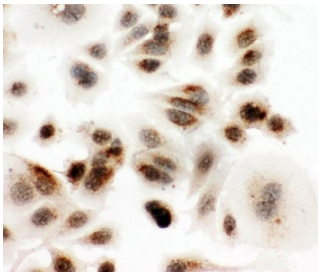
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9NQI0
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunohistochemistry (Frozen) : 0.5-1ug/ml Immunocytochemistry : 2ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml
Limitations	This VASA antibody is available for research use only.



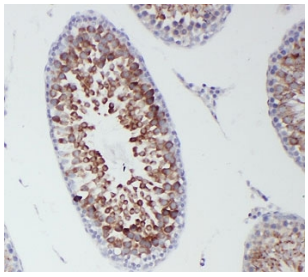
Western blot testing of VASA antibody and Lane 1: rat testis; 2: mouse testis; 3: HeLa cell lysate



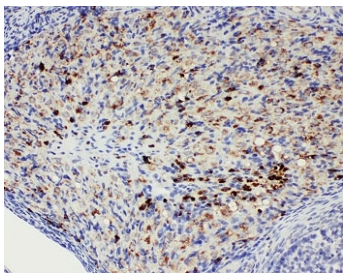
Western blot testing of VASA antibody and Lane 1: rat testis; 2: mouse testis; 3: (m) ovary tissue lysate



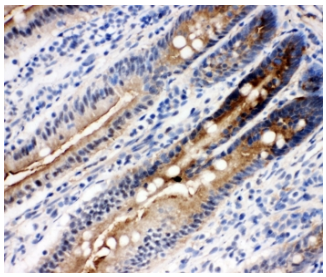
ICC testing of VASA antibody and MCF-7 cell



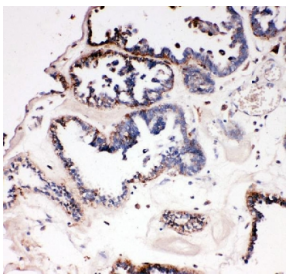
IHC-P testing of rat testis tissue



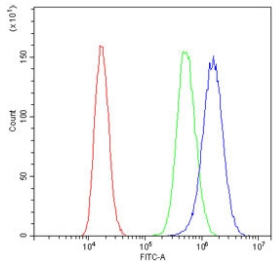
IHC-P: VASA antibody testing of rat ovary tissue



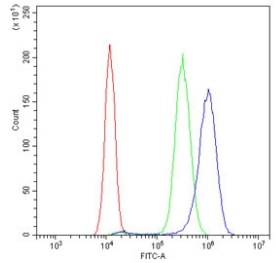
IHC-F testing of rat intestine tissue



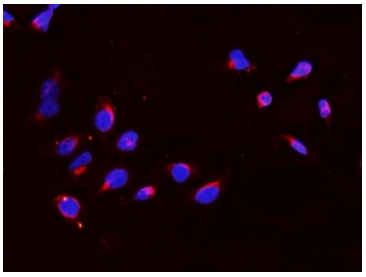
IHC staining of FFPE human ovarian cancer with VISA antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 20 min and allow to cool before testing.



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



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



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

Description

DEAD/H BOX 4, also known as DDX4 and VASA 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 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 homolog 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

The stated application concentrations are suggested starting amounts. Titration of the VASA antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 253-272 (EDEDSIFAHYQTGINFDKYD) were used as the immunogen for this VASA antibody (100% human, mouse and rat homology).

Storage

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