Technical Data Sheet

Purified Human anti-VASA/DDX4

Product Information

Material Number:	560189		
Alternate Name:	DDX4		
Size:	0.1 mg		
Concentration:	0.5 mg/ml		
Clone:	R11-A3		
Isotype:	Human Ig, λ		
Reactivity:	QC Testing: Mouse		
	Confirmed during development: Human		
Target MW:	76 kDa		
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.		

Description

The R11-A3 Fab reacts with a protein of the Asp-Glu-Ala-Asp (DEAD) box (DDX) family that is homologous to the VASA protein of Drosophila. The VASA/DDX4 gene is conserved in invertebrate and vertebrate species, and its expression is germ cell specific. In the human, VASA/DDX4 is expressed in fetal and adult germ cells, both male and female, but not in other fetal and adult tissues. Studies of VASA/DDX4 expression in various types of tumors suggest that expression of VASA/DDX4 is a useful biomarker for germ cell cancers.

The R11-A3 Fab was selected by screening a human Fab phage display library (Hoet et al.) licensed from Dyax Corp (Cambridge, MA) with immobilized recombinant human VASA/DDX4 protein.





VASA/DDX4 staining on human (left column) and mouse (right column) testes. Following antigen retrieval with BD Retrievagen A buffer (Cat. no. 550524), the formalin-fixed paraffin-embedded sections were stained with either Purified Human anti-VASA/DDX4 Fab (top row) or a control Fab specific for an irrelevant antigen (bottom row), with Hematoxylin counterstaining. VASA/DDX4 is detected in spermatids and spermatocytes in the seminiferous tubules. Original magnification: 20X.

Preparation and Storage

The recombinant Fab was purified from tissue culture supernatant by affinity chromatography. Store undiluted at 4°C.

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Application Notes

Application						
Western blot	Routinely Tested					
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development					

Recommended Assay Procedure:

We recommend Monoclonal ANTI-FLAG® M2-Peroxidase (Sigma-Aldrich, Cat. No. A8592) for use as a second-step reagent for western blots and immunohistochemistry.

Suggested Companion Products

Catalog Number	Name	Size	Clone
550524	Retrievagen A (pH 6.0)	1000 ml	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

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