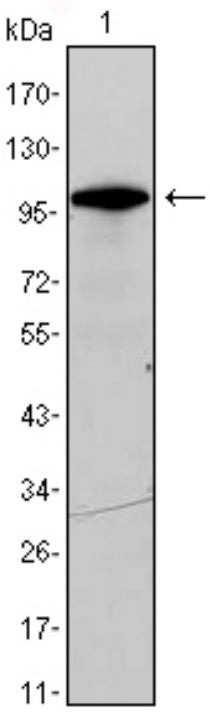
DDX4 Monoclonal Antibody

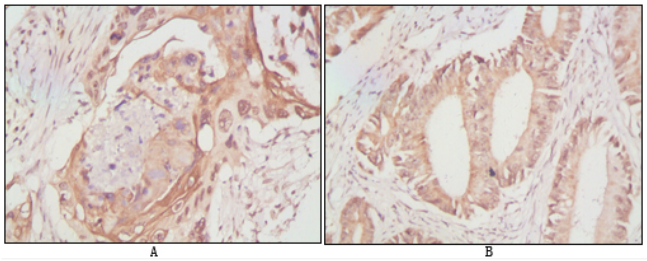
Catalog No	YP-Ab-16557
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;FCM;ELISA
Gene Name	DDX4
Protein Name	Probable ATP-dependent RNA helicase DDX4
Immunogen	Purified recombinant fragment of human DDX4 expressed in E. Coli
Specificity	DDX4 Monoclonal Antibody detects endogenous levels of DDX4 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DDX4; VASA; Probable ATP-dependent RNA helicase DDX4; DEAD box protein 4; Vasa homolog
Observed Band	
Cell Pathway	Cytoplasm . Cytoplasm, perinuclear region . Component of the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis. .
Tissue Specificity	Expressed only in ovary and testis. Expressed in migratory primordial germ cells in the region of the gonadal ridge in both sexes.
Function	function:May play a role in germ cell development.,similarity:Belongs to the DEAD box helicase family.,similarity:Belongs to the DEAD box helicase family. DDX4/VASA subfamily.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,subunit:N-terminus interacts with RANBP9. Interacts with PIWIL2 and MAEL.,tissue specificity:Expressed only in ovary and testis. Expressed in migratory primordial germ cells in the region of the gonadal ridge in both sexes.,
Background	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth

	and division. This gene encodes a DEAD box protein, which is a homolog of VASA proteins in Drosophila and several other species. The gene is specifically expressed in the germ cell lineage in both sexes and functions in germ cell development. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

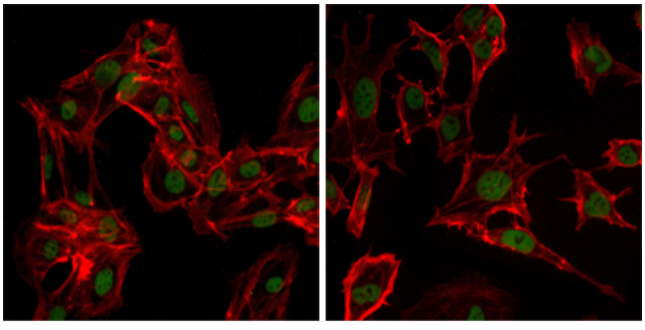
Products Images



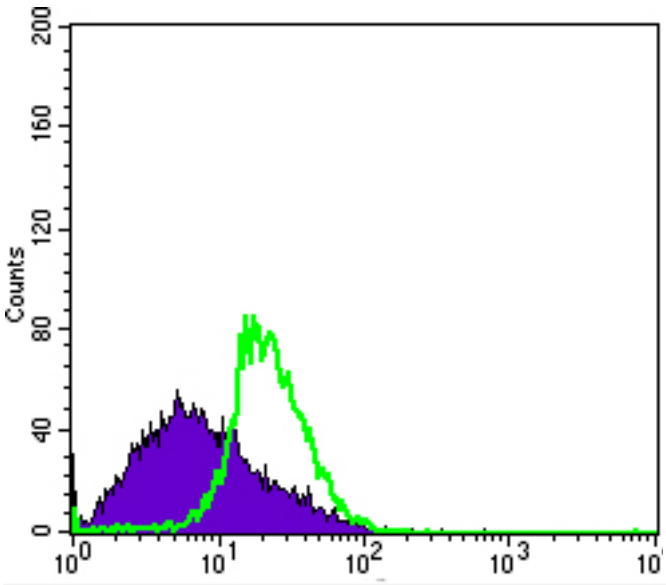
Western Blot analysis using DDX4 Monoclonal Antibody against DDX4-hIgGFc transfected HEK293 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer (A) and rectal cancer (B), showing cytoplasmic localization with DAB staining using DDX4 Monoclonal Antibody.



Immunofluorescence analysis of MSCs(left) and NTERA-2 (right) cells using DDX4 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin.



Flow cytometric analysis of MSCS cells using DDX4 Monoclonal Antibody (green) and negative control (purple).