10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

DDX6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9900c

Specification

DDX6 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P26196
Other Accession	P54824, P54823, Q5ZKB9
Reactivity	**Human**
Predicted	**Chicken, Mouse, Xenopus**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**54417**
Antigen Region	**348-375**

DDX6 Antibody (Center) - Additional Information

Gene ID 1656

Other Names
Probable ATP-dependent RNA helicase DDX6, ATP-dependent RNA helicase p54, DEAD box protein 6, Oncogene RCK, DDX6, HLR2, RCK

Target/Specificity
This DDX6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 348-375 amino acids from the Central region of human DDX6.

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DDX6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DDX6 Antibody (Center) - Protein Information

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Name DDX6

Synonyms HLR2, RCK

Function Essential for the formation of P-bodies, cytosolic membrane- less ribonucleoprotein granules involved in RNA metabolism through the coordinated storage of mRNAs encoding regulatory functions (PubMed:25995375, PubMed:27342281, PubMed:31422817). Plays a role in P-bodies to coordinate the storage of translationally inactive mRNAs in the cytoplasm and prevent their degradation (PubMed:27342281). In the process of mRNA degradation, plays a role in mRNA decapping (PubMed:16364915). Blocks autophagy in nutrient-rich conditions by repressing the expression of ATG-related genes through degradation of their transcripts (PubMed:26098573).

Cellular Location
Cytoplasm, P-body. Cytoplasm. Nucleus. Cytoplasm, Cytoplasmic ribonucleoprotein granule {ECO:0000250|UniProtKB:P54823}. Note=Imported in the nucleus via interaction with EIF4ENIF1/4E-T via a piggy-back mechanism (PubMed:28216671). Upon cellular stress, relocalizes to stress granules (PubMed:26184334).

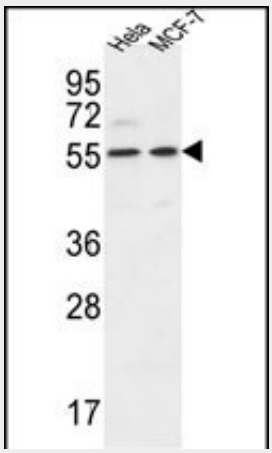
Tissue Location
Abundantly expressed in most tissues.

DDX6 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DDX6 Antibody (Center) - Images



DDX6 Antibody (Center) (Cat. #AP9900c) western blot analysis in Hela,MCF-7 cell line lysates (35ug/lane).This demonstrates the DDX6 antibody detected the DDX6 protein (arrow).

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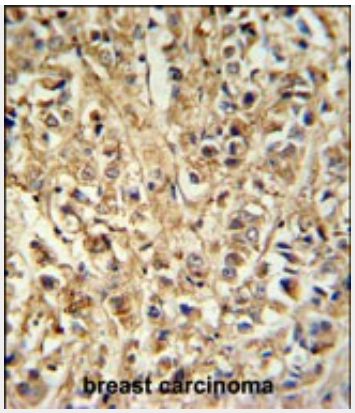

DDX6 Antibody (Center) (Cat. #AP9900c) IHC analysis in formalin fixed and paraffin embedded breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DDX6 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

DDX6 Antibody (Center) - Background

This gene encodes a member of the DEAD box protein family. The protein is an RNA helicase found in P-bodies and stress granules, and functions in translation suppression and mRNA degradation. It is required for microRNA-induced gene silencing.

DDX6 Antibody (Center) - References

Broytman, O., et al. Neurobiol. Aging 30(12):1962-1974(2009)
Han, J.W., et al. Nat. Genet. 41(11):1234-1237(2009)
Minshall, N., et al. Mol. Biol. Cell 20(9):2464-2472(2009)
Tritschler, F., et al. Mol. Cell 33(5):661-668(2009)