

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human DDX17 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DDX17 Asn498-Tyr638 Accession # Q92841
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	1-15 µg/mL	See Below
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Western Blot

Detection of Human DDX17 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, HEK293 human embryonic kidney cell line, and MCF-7 human breast cancer cell line. PVDF membrane was probed with 1 µg/mL of Human DDX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4530) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for DDX17 at approximately 86 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry

DDX17 in A431 Human Cell Line. DDX17 was detected in immersion fixed A431 human epithelial carcinoma cell line using Goat Anti-Human DDX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4530) at 1 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Immunohistochemistry

DDX17 in Human Liver Cancer Tissue. DDX17 was detected in immersion fixed paraffin-embedded sections of human liver cancer tissue using Goat Anti-Human DDX17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4530) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to nuclei in cancer cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DDX17 is a member of the DEAD box family of proteins, a family of RNA helicases characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD). DDX17 plays an essential role in many aspects of cellular RNA metabolism, including RNA transport, transcription, ribosome assembly, spliceosome function, RNA degradation, and the initiation of translation. Distribution patterns suggests that some members of this family may be involved in spermatogenesis, embryogenesis, and cellular growth and division. Alternative splicing of the DDX17 gene generates two transcript variants encoding isoforms p72 and p82. p82 is translated from a non-AUG start codon 243 bp upstream of the first in frame AUG initiator codon for p72. DDX17 is more closely related to DDX5 than to any other member of the DEAD box family.