Human ATR Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF4717

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ATR in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human ATR Glu2405-Met2644 Accession # Q13535
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.

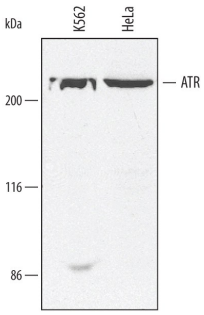
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

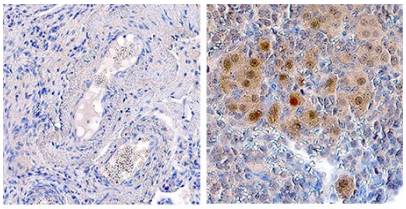
DATA

Western Blot



Detection of Human ATR by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human ATR Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4717) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for ATR at approximately 300 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



ATR in Human Ovarian Cancer Tissue. ATR was detected in immersion fixed paraffin-embedded sections of human ovarian cancer tissue using Goat Anti-Human ATR Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4717) 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.** ● 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

ATR (Ataxia telangiectasia and Rad 3-related) is a member of the phosphatidylinositol kinase-related kinase (PIKK) family of protein kinases. ATR is a large protein kinase (~300 kDa) that functions in the response to genotoxic stress, DNA recombination, and cell cycle control.

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