

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human ATRIP in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ATRIP Glu461-Gly791 Accession # Q8WXE1
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ATRIP (ATR interacting protein) is an 85-90 kDa member of the ATRIP family of proteins. It is ubiquitously expressed, and recruits ATR to sites of DNA damage and replication stress. Human ATRIP is 791 amino acids (aa) in length. It contains a PRA-ssDNA binding region (aa 1-107), a coiled-coil domain (aa 108-217) and an ATR-recruitment region (aa 641-726). The coiled-coil region mediates ATRIP oligomerization, and multimerization with ATR, creating complexes of 1000 kDa. ATRIP undergoes phosphorylation at Ser224, Ser239 and Ser518 influencing its role in the DNA damage response. There is an alternate start site at Met94, plus a deletion of aa 658-684 in a second isoform, and a deletion of aa 661-687 in a third isoform. Over aa 461-791, human ATRIP is 76% aa identical to mouse ATRIP.

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