

# ATR Recombinant Polyclonal Antibody (23HCLC)

## Product Details

Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	23HCLC
Conjugate	Unconjugated
Immunogen	Peptides corresponding to Human ATR (aa 7-26, 442-459)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2607919

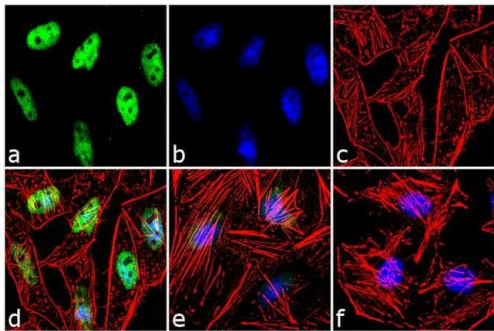
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	-

## Product Specific Information

This antibody is predicted to react with Monkey, Cat and Bovine.

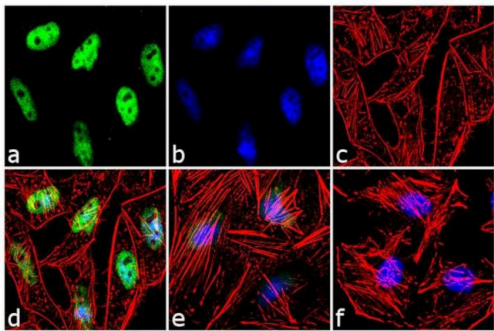
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For ATR Recombinant Polyclonal Antibody (23HCLC)



**ATR Antibody (710746)**

Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of ATR using Anti-ATR Recombinant Rabbit Polyclonal Antibody (Product # 710746), shows translocation from cytoplasm to nucleus with an increase in expression of ATR upon hydroxy urea treatment. Hydroxy urea induces DNA damage, which results in the activation of ATR, its localization to the sites of DNA damage, and an elevation in its kinase activity. {TM}



**ATR Antibody (710746) in ICC/IF**

For immunofluorescence analysis, Hydroxy Urea (3 mM, 20h) treated HeLa cells were fixed and permeabilized for detection of ATR using ATR Recombinant Rabbit Polyclonal Antibody (Product # 710746, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of ATR protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear and nuclear localization of ATR. Panel e) shows untreated cells with cytoplasmic localization. Panel f) represents control cells with no primary antibody to assess background.

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