

# Aurora A (xN-17): sc-27883

## BACKGROUND

Activation of the oncogenic protein kinase Aurora A regulates meiotic and mitotic cell cycles in eukaryotic cells. Specifically, Aurora A plays a key role in G<sub>2</sub>/M progression. Activation occurs via autophosphorylation, and while 14 sites are subject to this, only the threonine residue at position 295 is required for activity. Though autophosphorylation mediates activation, a number of other proteins influence activation, including the spindle assembly factor TPX2 and p53.

## REFERENCES

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## SOURCE

Aurora A (xN-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Aurora A of *Xenopus laevis* origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27883 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Aurora A (xN-17) is recommended for detection of Aurora A of *Xenopus laevis* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Aurora A: 46 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **Aurora A (D-2): sc-373856**, our highly recommended monoclonal alternative to Aurora A (xN-17).