

Recombinant TPX2 Monoclonal Antibody

catalog number: AN301679L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

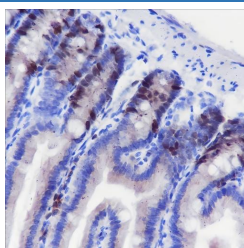
Reactivity	Human;Rat;Mouse
Immunogen	Recombinant human TPX2 fragment
Host	Rabbit
Isotype	IgG, κ
Clone	C111302
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications

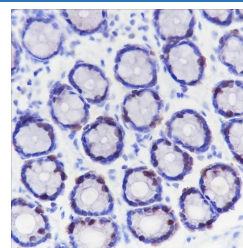
Recommended Dilution

WB	1:500-1:1000
IHC	1:50-1:200
IF	1:50
FCM	1:50-1:100

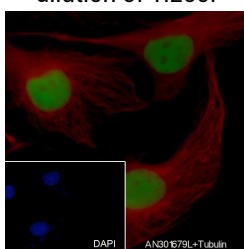
Data



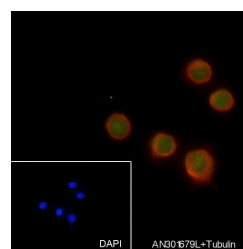
Immunohistochemistry of paraffin-embedded Mouse small intestine using TPX2 Monoclonal Antibody at dilution of 1:200.



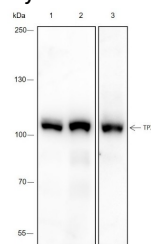
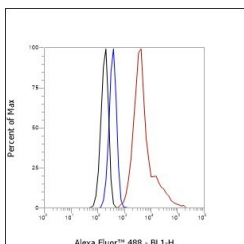
Immunohistochemistry of paraffin-embedded Rat colon using TPX2 Monoclonal Antibody at dilution of 1:50.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed Hela cells using anti-TPX2 Monoclonal Antibody at dilution of 1:50.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed RAW 264.7 cells using anti-TPX2 Monoclonal Antibody at dilution of 1:50.



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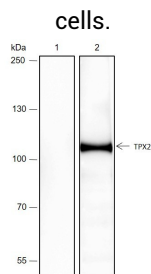
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Rev. V1.1

Flow cytometric analysis of human TPX2 expression on HeLa cells. Cells were stained with purified anti-Human TPX2, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact

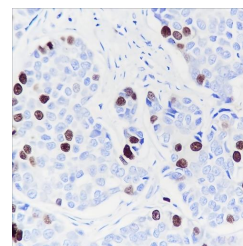


cells.
Western Blot with TPX2 Monoclonal Antibody at dilution of 1:1000. Lane 1: Raji cell lysate, the TPX2 Rabbit mAb pre-adsorbed with 3μM of the synthetic peptides, Lane 2: Raji cell lysate, the TPX2 Rabbit mAb with no peptide blocking.

Observed-MW:100 kDa
Calculated-MW:86 kDa

Western Blot with TPX2 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: Raji, Lane 3: PC-12

Observed-MW:100 kDa
Calculated-MW:86 kDa



Immunohistochemistry of paraffin-embedded Human breast cancer using TPX2 Monoclonal Antibody at dilution of 1:200.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Spindle assembly factor required for normal assembly of mitotic spindles. Required for normal assembly of microtubules during apoptosis. Required for chromatin and/or kinetochore dependent microtubule nucleation. Mediates AURKA localization to spindle microtubules. Activates AURKA by promoting its autophosphorylation at 'Thr-288' and protects this residue against dephosphorylation. TPX2 is inactivated upon binding to importin-α. At the onset of mitosis, GOLGA2 interacts with importin-α, liberating TPX2 from importin-α, allowing TPX2 to activates AURKA kinase and stimulates local microtubule nucleation.

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