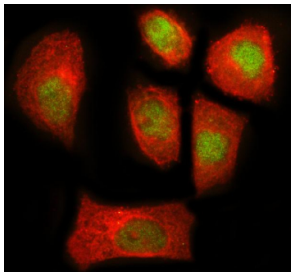
NEK7 Antibody / Inflammasome Activation Protein Antibody (FY12050)

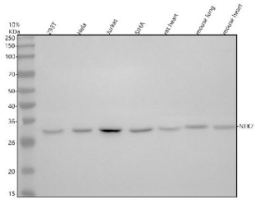
Catalog No.	Formulation	Size
FY12050	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

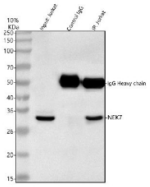
Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q8TDX7
Applications	Western Blot: 0.25-0.5ug/ml Immunocytochemistry/Immunofluorescence: 5ug/ml Immunoprecipitation: 2-4ug/500ug of lysate Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5ug/ml
Limitations	This NEK7 Antibody / Inflammasome Activation Protein Antibody is available for research use only.



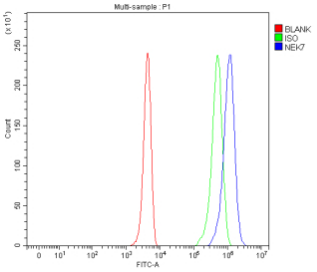
NEK7 Antibody SiHa Cell IF. Immunofluorescent staining of human SiHa cells with NEK7 Antibody (green) and beta Tubulin antibody (red). Enzyme antigen retrieval was performed for 15 minutes, followed by blocking with 10% goat serum. Cells were incubated with rabbit anti-NEK7 antibody at 5 ug/ml and mouse anti-beta Tubulin antibody overnight at 4Â°C, followed by DyLight 488 and Cy3 conjugated secondary antibodies. NEK7 Antibody / Inflammasome Activation Protein Antibody demonstrates staining consistent with NIMA Related Kinase 7 expression and supports studies of NLRP3 inflammasome regulation, innate immune signaling and cell cycle pathways.



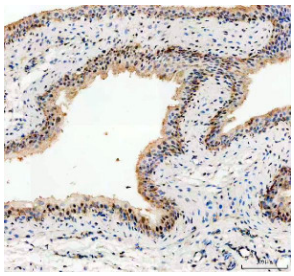
NEK7 Antibody Human, Rat and Mouse WB. Western blot testing of human 293T, HeLa, Jurkat and SiHa cell lysates, along with rat heart, mouse lung and mouse heart tissue lysates, with NEK7 Antibody at 0.5 ug/ml. Lane 1: human 293T; Lane 2: human HeLa; Lane 3: human Jurkat; Lane 4: human SiHa; Lane 5: rat heart; Lane 6: mouse lung; Lane 7: mouse heart. A specific band was detected at approximately 32 kDa. NEK7 Antibody / Inflammasome Activation Protein Antibody detects endogenous NIMA Related Kinase 7 expression and supports studies of NLRP3 inflammasome activation, innate immune signaling and cell cycle regulation pathways.



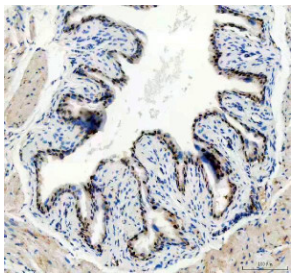
NEK7 Antibody Jurkat Cell IP. Immunoprecipitation of NEK7 protein from 500 ug of human Jurkat whole cell lysate using 2 ug of NEK7 Antibody. Immunoprecipitated protein was analyzed by Western blot, with input lysate and rabbit IgG control samples included for comparison. NEK7 was detected at approximately 32 kDa, consistent with the predicted molecular weight of ~35 kDa. NEK7 Antibody / Inflammasome Activation Protein Antibody successfully enriches endogenous NIMA Related Kinase 7 protein and supports studies of NLRP3 inflammasome activation, protein interactions and innate immune signaling pathways.



NEK7 Antibody 293T Cell FACS. Flow cytometry testing of human 293T cells with NEK7 Antibody at 1 ug/million cells. Cells were fixed with 4% paraformaldehyde, permeabilized and blocked with 10% normal goat serum prior to intracellular staining. DyLight 488 conjugated goat anti-rabbit IgG was used as the secondary antibody. Red histogram represents blank control, green represents isotype control and blue represents NEK7 antibody staining. NEK7 Antibody / Inflammasome Activation Protein Antibody demonstrates detection of NIMA Related Kinase 7 expression and supports studies of NLRP3 inflammasome activation, innate immune signaling and cell cycle regulation pathways.



NEK7 Antibody Rat Bladder IHC. Immunohistochemistry staining of FFPE rat bladder tissue with NEK7 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-NEK7 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. NEK7 Antibody / Inflammasome Activation Protein Antibody demonstrates staining consistent with NIMA Related Kinase 7 expression and supports studies of NLRP3 inflammasome activation, innate immune signaling and inflammatory pathway regulation.



NEK7 Antibody Mouse Bladder IHC. Immunohistochemistry staining of FFPE mouse bladder tissue with NEK7 Antibody at 2 ug/ml. HIER was performed using pH 8 EDTA buffer, followed by blocking with 10% goat serum. The tissue section was incubated with rabbit anti-NEK7 antibody overnight at 4Â°C, followed by HRP-conjugated goat anti-rabbit IgG secondary antibody and DAB chromogen detection. NEK7 Antibody / Inflammasome Activation Protein Antibody demonstrates staining consistent with NIMA Related Kinase 7 expression and supports studies of NLRP3 inflammasome activation, innate immune signaling and inflammatory pathway regulation.

Description

NEK7 Antibody / Inflammasome Activation Protein Antibody detects NIMA Related Kinase 7, a serine/threonine kinase involved in inflammasome regulation, cell cycle progression and mitotic control. NEK7 belongs to the NIMA-related kinase family and was originally characterized for its role in centrosome function, spindle organization and proper chromosome segregation during mitosis. In addition to these cell division functions, NEK7 has emerged as an essential regulator of NLRP3 inflammasome activation, connecting this kinase to innate immune signaling and inflammatory response pathways.

NEK7 contributes to NLRP3 inflammasome assembly through interactions that support activation of downstream inflammatory signaling mechanisms. The NEK7-NLRP3 relationship has become an important research area for understanding how cellular stress signals regulate innate immune responses. Beyond inflammasome biology, NEK7 participates in microtubule organization, centrosome separation and mitotic spindle formation, helping maintain accurate cell division. NEK7 Antibody is commonly used by researchers investigating inflammatory signaling, kinase regulation and cell cycle biology.

Research involving NEK7 spans multiple fields including immunology, cancer biology and cell division studies. Regulation of inflammasome activation is important for understanding immune responses, inflammatory disease mechanisms and cellular stress pathways. NEK7 kinase activity and expression are also studied in cancer research due to links between mitotic regulation, proliferation and genome stability. Its dual involvement in innate immunity and cell cycle regulation makes NEK7 a valuable target across several biological disciplines.

NEK7 Antibody applications include detection of NIMA Related Kinase 7 expression, localization and regulation in biological samples using methods such as Western blot, immunohistochemistry, immunofluorescence and flow cytometry. Analysis of NEK7 supports studies of NLRP3 inflammasome activation, inflammatory signaling, mitotic progression and kinase-mediated regulation. NSJ Bioreagents provides NEK7 Antibody / Inflammasome Activation Protein Antibody for researchers studying innate immunity, cell signaling and cell cycle control mechanisms.

NEK7 Antibody detects a kinase regulator involved in NLRP3 inflammasome activation, innate immune signaling and inflammatory response pathways, making it a useful marker for research areas featured in our Immunology Antibodies page.

Application Notes

Optimal dilution of the NEK7 Antibody / Inflammasome Activation Protein Antibody should be determined by the researcher.

Immunogen

E.coli-derived human NEK7 recombinant protein (Position: M1-S302) was used as the immunogen for the NEK7 antibody.

Storage

After reconstitution, the NEK7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

NIMA Related Kinase 7 Antibody, NIMA-Related Kinase 7 Antibody, Serine Threonine Kinase NEK7 Antibody, NLRP3 Regulator Antibody, Cell Cycle Kinase Antibody, Mitotic Kinase Antibody

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