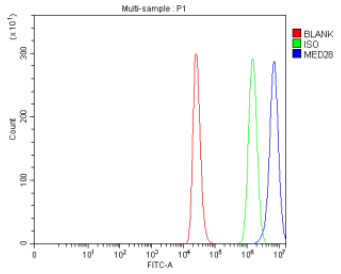
MED28 Antibody / Mediator complex subunit 28 (FY12612)

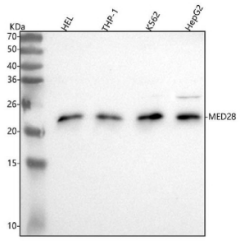
Catalog No.	Formulation	Size
FY12612	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

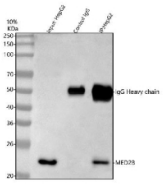
Availability	1-2 days
Species Reactivity	Human
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9H204
Applications	ELISA: 0.1-0.5ug/ml Flow cytometry: 1-3ug/million cells Immunoprecipitation: 2-4ug/500ug of lysate Western Blot: 0.25-0.5ug/ml Immunofluorescence: 5ug/ml
Limitations	This MED28 antibody is available for research use only.



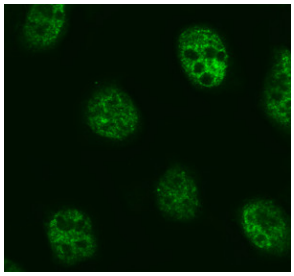
MED28 Antibody in Human THP-1 Monocytic Leukemia Cells FACS. Flow cytometry analysis of fixed and permeabilized human THP-1 monocytic leukemia cells with MED28 Antibody / Mediator complex subunit 28 at 1 ug/million cells. Cells were blocked with 10% normal goat serum and incubated with the primary antibody for 30 min at 20oC. DyLight 488-conjugated goat anti-rabbit IgG was used as the secondary antibody at 5-10 ug/million cells for 30 min at 20oC. Red represents the unlabeled control, green represents the isotype control and blue represents MED28 Antibody staining. A clear fluorescence shift is observed with MED28 staining relative to the isotype control. This MED28 Antibody demonstrates detection of Mediator complex subunit 28 in human monocytic leukemia cells by flow cytometry.



MED28 Antibody in Human Leukemia and Hepatocellular Carcinoma Cells WB. Western blot testing of MED28 Antibody / Mediator complex subunit 28 using lysates from 1) human HEL cells, 2) human THP-1 cells, 3) human K562 cells and 4) human HepG2 cells. The antibody was used at 0.5 ug/ml overnight at 4oC, followed by goat anti-rabbit IgG-HRP at 1:5000 and chemiluminescent detection. A major band is detected at approximately 24 kDa, slightly above the predicted molecular weight of approximately 20 kDa and consistent with the reported migration of MED28. This MED28 Antibody demonstrates detection of Mediator complex subunit 28 in multiple human cell lines.



MED28 Antibody Immunoprecipitation from Human HepG2 Cells IP. Immunoprecipitation of MED28 from human HepG2 hepatocellular carcinoma whole cell lysate was performed using MED28 Antibody / Mediator complex subunit 28. Lane 1 contains 30 ug of HepG2 whole cell lysate, lane 2 is the rabbit IgG control and lane 3 contains MED28 immunoprecipitated from 500 ug of HepG2 lysate using 2 ug of antibody. Western blot detection was performed with MED28 Antibody at 0.5 ug/ml followed by goat anti-rabbit IgG-HRP and ECL detection. A major MED28 band is detected at approximately 24 kDa, slightly above its predicted molecular weight of approximately 20 kDa. This MED28 Antibody demonstrates immunoprecipitation of Mediator complex subunit 28 from human HepG2 cells.



MED28 Antibody in Human U2OS Osteosarcoma Cells IF. Immunofluorescence staining of human U2OS osteosarcoma cells with MED28 Antibody / Mediator complex subunit 28 at 5 ug/ml. Enzyme-mediated antigen retrieval was performed for 15 min, followed by blocking with 10% goat serum. Cells were incubated with the primary antibody overnight at 4oC. Fluoro488-conjugated goat anti-rabbit IgG was used as the secondary antibody at 1:500 for 30 min at 37oC. MED28 staining is predominantly localized to the nuclei. This MED28 Antibody enables visualization of Mediator complex subunit 28 expression and localization in human osteosarcoma cells.

Description

MED28 antibody detects Mediator complex subunit 28, a component of the Mediator coactivator complex that bridges transcription factors and RNA polymerase II during transcription initiation. MED28 plays essential roles in gene expression, cytoskeletal organization, and signal transduction. The MED28 antibody is widely used in transcriptional regulation, cancer, and developmental biology research to study Mediator function and signaling integration.

MED28 is encoded by the MED28 gene located on human chromosome 4q27. The protein is approximately 178 amino acids long and localizes to both the nucleus and plasma membrane. MED28 interacts with other Mediator complex subunits as well as cytoskeletal proteins, suggesting dual functions in transcriptional control and cell structure regulation. Its nuclear role involves recruitment of RNA polymerase II to promoters and modulation of gene-specific transcriptional activation.

The MED28 antibody detects a 22 kilodalton band by western blot and shows nuclear and cortical cytoplasmic staining. MED28 acts as a scaffold linking the cytoskeleton to transcriptional machinery, coordinating extracellular signals with gene expression. It associates with receptor tyrosine kinases and small GTPases, influencing actin organization and cell migration.

Functionally, MED28 contributes to development and differentiation by regulating transcription factors involved in lineage commitment. Dysregulation of MED28 expression has been linked to various cancers, including breast and gastric carcinoma, where it enhances proliferation and motility. MED28 also participates in smooth muscle differentiation and cardiovascular development, underscoring its diverse physiological roles.

Through its integration of signaling and transcriptional regulation, MED28 serves as a nexus between cellular structure

and gene expression. NSJ Bioreagents provides a validated MED28 antibody optimized for its applications, supporting research into Mediator complex biology, cytoskeletal signaling, and transcriptional control.

MED28 is involved in transcriptional regulation as a component of the Mediator complex and connects gene expression with cellular signaling pathways; explore related targets on our Signal Transduction Antibodies page.

Application Notes

Optimal dilution of the MED28 antibody should be determined by the researcher.

Immunogen

E.coli-derived human MED28 recombinant protein (Position: M1-T178) was used as the immunogen for the MED28 antibody.

Storage

After reconstitution, the MED28 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

MED28 antibody, Mediator complex subunit 28 antibody, Mediator of RNA polymerase II transcription subunit 28 antibody, Magicin antibody, EG1 antibody

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