

# INO80E (B-6): sc-515298

## BACKGROUND

The INO80 complex contributes to a wide variety of chromatin-dependent nuclear transactions, including transcription, DNA repair and DNA replication. Evolutionarily conserved from yeast to human, the INO80 complex belongs to a subfamily of the ATP-dependent chromatin remodelers and is characterized by a split ATPase domain in the core ATPase subunit. ATP-dependent chromatin remodeling complexes contain ATPases of the Swi/Snf superfamily and alter DNA accessibility of chromatin in an ATP-dependent manner. INO80E (INO80 complex subunit E), also known as CCDC95, is a 244 amino acid protein that is a component of the chromatin-remodeling INO80 complex.

## REFERENCES

- Kobor, M.S., et al. 2004. A protein complex containing the conserved Swi2/Snf2-related ATPase Swr1p deposits histone variant H2A.Z into euchromatin. *PLoS Biol.* 2: E131.
- Jin, J., et al. 2005. A mammalian chromatin remodeling complex with similarities to the yeast INO80 complex. *J. Biol. Chem.* 280: 41207-41212.
- Bao, Y. and Shen, X. 2007. INO80 subfamily of chromatin remodeling complexes. *Mutat. Res.* 618: 18-29.
- Ford, J., et al. 2008. Activator-dependent recruitment of SWI/SNF and INO80 during INO1 activation. *Biochem. Biophys. Res. Commun.* 373: 602-606.
- Papamichos-Chronakis, M. and Peterson, C.L. 2008. The INO80 chromatin-remodeling enzyme regulates replisome function and stability. *Nat. Struct. Mol. Biol.* 15: 338-345.
- Tsukuda, T., et al. 2009. INO80-dependent chromatin remodeling regulates early and late stages of mitotic homologous recombination. *DNA Repair* 8: 360-369.

## CHROMOSOMAL LOCATION

Genetic locus: INO80E (human) mapping to 16p11.2; Ino80e (mouse) mapping to 7 F3.

## SOURCE

INO80E (B-6) is a mouse monoclonal antibody raised against amino acids 51-130 mapping within an internal region of INO80E of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

INO80E (B-6) is available conjugated to agarose (sc-515298 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515298 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515298 PE), fluorescein (sc-515298 FITC), Alexa Fluor® 488 (sc-515298 AF488), Alexa Fluor® 546 (sc-515298 AF546), Alexa Fluor® 594 (sc-515298 AF594) or Alexa Fluor® 647 (sc-515298 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515298 AF680) or Alexa Fluor® 790 (sc-515298 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

INO80E (B-6) is recommended for detection of INO80E of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for INO80E siRNA (h): sc-93465, INO80E siRNA (m): sc-142160, INO80E shRNA Plasmid (h): sc-93465-SH, INO80E shRNA Plasmid (m): sc-142160-SH, INO80E shRNA (h) Lentiviral Particles: sc-93465-V and INO80E shRNA (m) Lentiviral Particles: sc-142160-V.

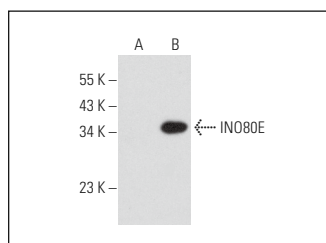
Molecular Weight of INO80E: 26 kDa.

Positive Controls: INO80E (h): 293T Lysate: sc-116142 or WEHI-231 whole cell lysate: sc-2213.

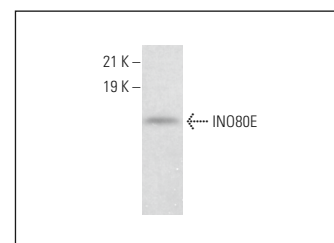
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



INO80E (B-6): sc-515298. Western blot analysis of INO80E expression in non-transfected: sc-117752 (A) and human INO80E transfected: sc-116142 (B) 293T whole cell lysates.



INO80E (B-6): sc-515298. Western blot analysis of INO80E expression in WEHI-231 whole cell lysate.

## SELECT PRODUCT CITATIONS

- Sabath, K., et al. 2024. Basis of gene-specific transcription regulation by the Integrator complex. *Mol. Cell* 84: 2525-2541.e12.

## 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.