SANTA CRUZ BIOTECHNOLOGY, INC.

INO80E (C-13): sc-136613

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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, theINO80 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

1. 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: 131.
2. Jin, J., et al. 2005. A mammalian chromatin remodeling complex with similarities to the yeast INO80 complex. J. Biol. Chem. 280: 41207-41212.
3. Bao, Y. and Shen, X. 2007. INO80 subfamily of chromatin remodeling complexes. Mutat. Res. 618: 18-29.
4. Ford, J., et al. 2008. Activator-dependent recruitment of SWI/SNF and INO80 during INO1 activation. Biochem. Biophys. Res. Commun. 373: 602-606.
5. 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.
6. 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 (C-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of INO80E of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-136613 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

INO80E (C-13) is recommended for detection of INO80E of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other CCDC family members.

INO80E (C-13) is also recommended for detection of INO80E in additional species, including equine, canine, bovine and porcine.

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.

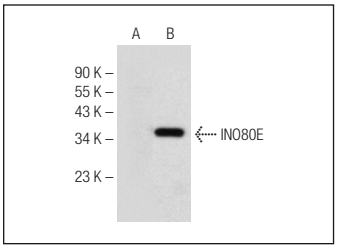
Molecular Weight of INO80E: 26 kDa.

Positive Controls: INO80E (h): 293T Lysate: sc-126591.

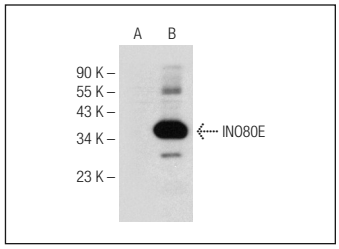
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



INO80E (C-13): sc-136613. Western blot analysis of INO80E expression in non-transfected: sc-117752 (**A**) and human INO80E transfected: sc-126591 (**B**) 293T whole cell lysates.



INO80E (C-13): sc-136613. Western blot analysis of INO80E expression in non-transfected: sc-117752 (**A**) and human INO80E transfected: sc-116142 (**B**) 293T whole cell lysates.

RESEARCH USE

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