BACKGROUND

The POZ-zinc finger protein Kaiso is a member of the BTB/POZ family of zinc finger transcription factors implicated in embryonic development and cancer. Kaiso, also known as ZNF-kaiso, maps to human chromosome Xq23 and encodes a 627 amino acid protein. Kaiso is a transcriptional repressor that contains an amino-terminal BTB-POZ protein-protein interaction domain and three carboxy-terminal zinc finger domains of the C2H2 DNA-binding type. The zinc-finger domains of Kaiso specifically recognize symmetrically methylated DNA sequences in vitro. Kaiso is known to associate with p120 catenin. Kaiso functions throughout development, and its repressor functions are most apparent in the context of neural tissues. Kaiso is predominantly localized to the nucleus and is expressed in the brain, eye, ear, branchial arches and spinal cord as well as NIH3T3 cells.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: ZBTB33 (human) mapping to Xq23; Zbtb33 (mouse) mapping to X A3.2.

SOURCE

Kaiso (12H) is a mouse monoclonal antibody raised against amino acids 1-504 representing full length Kaiso.

STORAGE

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

PRODUCT

Each vial contains 200 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Kaiso (12H) is recommended for detection of Kaiso of mouse, rat, human, canine, and hamster origin by Western Blotting (starting dilution 1:200, 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).


Kaiso (12H) X TransCruz™ antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Kaiso: 75 kDa

Positive Controls: 3T3-L1 cell lysate: sc-2243 or A-431 whole cell lysate: sc-c2201

DATA

Western blot analysis of Kaiso expression in untransfected HCT116 (A, C) and Kaiso transfected HCT116 (B, D) whole cell lysates. Antibodies tested include Kaiso (6F8): sc-23871 (A, B) and Kaiso (12H): sc-23930 (C, D).

SELECT PRODUCT CITATIONS


RESEARCH USE

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