

SECISBP2 Polyclonal Antibody

Catalog number: 12798-1-AP

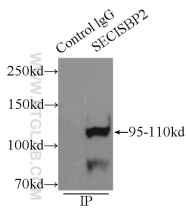
Size: 37 µg/150 µl

Source: Rabbit

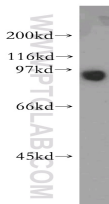
Isotype: IgG

Synonyms:

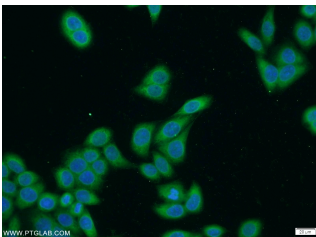
SECISBP2; DKFZp686C09169,
SBP2, SECIS binding protein 2,
SECISBP2



IP Result of anti-SECISBP2 (IP:12798-1-AP, 3µg; Detection:12798-1-AP 1:600) with mouse testis tissue lysate 8000µg.



HeLa cells were subjected to SDS PAGE followed by western blot with 12798-1-AP(SECISBP2 antibody) at dilution of 1:400



Immunofluorescent analysis of HeLa cells using 12798-1-AP(SECISBP2 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)

Background

Selenium (Se) is an essential trace element required for the biosynthesis of selenoproteins, and selenocysteine insertion sequence (SECIS) binding protein 2 (SECISBP2, or SBP2) represents a key trans-acting factor for the cotranslational insertion of selenocysteine into selenoproteins. Defects in SBP2 are a cause of abnormal thyroid hormone metabolism (ATHYHM) associated with a reduction in type II iodothyronine deiodinase activity. Mutations in this gene have been associated with a reduction in activity of a specific thyroxine deiodinase, a selenocysteine-containing enzyme, and abnormal thyroid hormone metabolism. Cells depleted of SBP2 have increased levels of ROS, which lead to cellular oxidative stress manifested as DNA lesions, stress granules, and lipid peroxidation, induction of caspase- and cytochrome c-dependent apoptosis, indicating that SBP2 is required for protection against ROS-induced cellular damage and cell survival.

Applications

Tested applications:	ELISA, WB, IP, IF
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human
Calculated SECISBP2 MW:	854aa, 95 kDa
Observed SECISBP2 MW:	95 kDa
Positive WB detected in	HeLa cells, human kidney tissue, Jurkat cells
Positive IP detected in	Mouse testis tissue
Positive IF detected in	HeLa cells
Recommended dilution:	WB: 1:500-1:5000 IP: 1:200-1:2000 IF: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3541
GenBank accession number:	BC036109
Gene ID (NCBI):	79048
Full name:	SECIS binding protein 2

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.