

OAS2 (H-180): sc-99097

BACKGROUND

The 2'-5' oligoadenylate synthetase (OAS) family is comprised of four members: OAS1, OAS2, OAS3 and OASL. These proteins are induced by interferons and function to convert ATP into 2'-5' linked oligomers of adenosine in the presence of double-stranded RNA and magnesium ions. Copper, iron and zinc ions strongly inhibit the OAS enzymatic activity, while manganese ions can replace magnesium ions as an activator. The OAS family plays a significant role in the inhibition of cellular protein synthesis as well as in viral infection resistance. OAS2 represents the "medium form" in the OAS family, and it maps to human chromosome 12q24.2. OAS2 contains two OAS1-homologous domains separated by a proline-rich putative linker region, and it is functionally active as a dimer. Abnormal expression patterns of OAS2 may be linked to infection flare in lupus patients.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OAS2 (human) mapping to 12q24.13.

SOURCE

OAS2 (H-180) is a rabbit polyclonal antibody raised against amino acids 1-180 mapping at the N-terminus of OAS2 of human origin.

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 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-99097 X, 200 μ g/0.1 ml.

APPLICATIONS

OAS2 (H-180) is recommended for detection of OAS2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

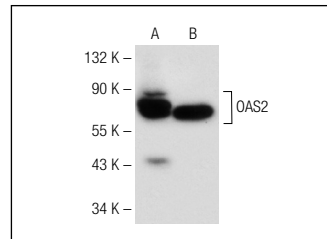
Suitable for use as control antibody for OAS2 siRNA (h): sc-61243, OAS2 shRNA Plasmid (h): sc-61243-SH and OAS2 shRNA (h) Lentiviral Particles: sc-61243-V.

OAS2 (H-180) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

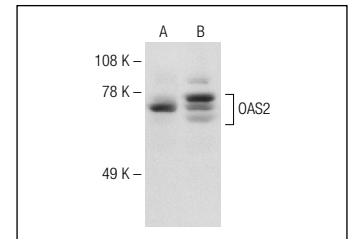
Molecular Weight of OAS2: 69 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-220.

DATA



OAS2 (H-180): sc-99097. Western blot analysis of OAS2 expression in BJAB (A) and IFN γ treated HL-60 (B) whole cell lysates.



OAS2 (H-180): sc-99097. Western blot analysis of OAS2 expression in Jurkat (A) and GA-10 (B) whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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