

IEX-1 (M-20): sc-8457

BACKGROUND

Tumors are frequently observed as resistant to apoptotic induction by FAS, tumor necrosis factor α (TNF- α) or irradiation. This anti-death activity may be attributed to immediate early-response genes that are regulated at the transcriptional level, including the protein IEX-1. IEX-1 (immediately early gene X-1), also known as IER3 (immediate early response 3), DIF-2 (differentiation-dependent gene 2 protein), immediate early protein GLY96 or PRG1 (PACAP-responsive gene 1 protein), is a 156 amino acid single-pass type II membrane protein that belongs to the IER3 family. IEX-1 was originally characterized as a gene induced by ultraviolet radiation and TNF- α , which protected human squamous carcinoma cells from apoptosis. Subsequent transfection studies have also shown that expression of IEX-1 in human keratinocytes and mouse fibroblasts results in more rapid proliferation of the cells as compared with controls. The promoter region of IEX-1 contains binding motifs for both NF κ B and p53, suggesting that these proteins may regulate its expression.

CHROMOSOMAL LOCATION

Genetic locus: *ler3* (mouse) mapping to 17 B1.

SOURCE

IEX-1 (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IEX-1 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-8457 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

IEX-1 (M-20) is recommended for detection of IEX-1 of mouse and rat 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).

IEX-1 (M-20) is also recommended for detection of IEX-1 in additional species, including bovine and porcine.

Suitable for use as control antibody for IEX-1 siRNA (m): sc-146148, IEX-1 shRNA Plasmid (m): sc-146148-SH and IEX-1 shRNA (m) Lentiviral Particles: sc-146148-V.

Molecular Weight (predicted) of IEX-1: 17 kDa.

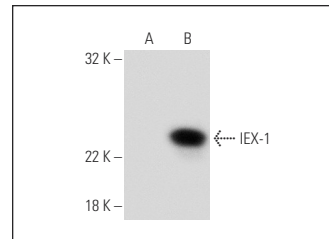
Molecular Weight (observed) of IEX-1: 23 kDa.

Positive Controls: IEX-1 (h): 293T Lysate: sc-110039 or IEX-1 (m): 293T Lysate: sc-120948.

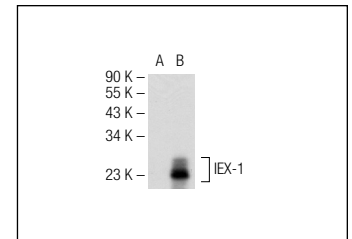
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



IEX-1 (M-20): sc-8457. Western blot analysis of IEX-1 expression in non-transfected: sc-117752 (A) and human IEX-1 transfected: sc-110039 (B) 293T whole cell lysates.



IEX-1 (M-20): sc-8457. Western blot analysis of IEX-1 expression in non-transfected: sc-117752 (A) and mouse IEX-1 transfected: sc-120948 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Taddeo, B., et al. 2003. The stress-inducible immediate-early responsive gene IEX-1 is activated in cells infected with herpes simplex virus 1, but several viral mechanisms, including 3' degradation of its RNA, preclude expression of the gene. *J. Virol.* 77: 6178-6187.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **IEX-1 (E-2): sc-515605**, our highly recommended monoclonal alternative to IEX-1 (M-20).