

Rad26L (E-10): sc-377506

BACKGROUND

Chromosome 9 consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding Endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of Bcr-Abl fusion protein often found in leukemias.

REFERENCES

- Humphray, S.J., et al. 2004. DNA sequence and analysis of human chromosome 9. *Nature* 429: 369-374.
- Coppo, P., et al. 2006. Bcr-Abl activates Stat3 via JAK and MEK pathways in human cells. *Br. J. Haematol.* 134: 171-179.
- Zheng, X., et al. 2006. Bcr and its mutants, the reciprocal t(9;22)-associated Abl/Bcr fusion proteins, differentially regulate the cytoskeleton and cell motility. *BMC Cancer* 7: 262.
- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.

CHROMOSOMAL LOCATION

Genetic locus: ERCC6L2 (human) mapping to 9q22.32; Ercc6l2 (mouse) mapping to 13 B3.

SOURCE

Rad26L (E-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 335-367 within an internal region of Rad26L of human origin.

PRODUCT

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

Rad26L (E-10) is available conjugated to agarose (sc-377506 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377506 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377506 PE), fluorescein (sc-377506 FITC), Alexa Fluor® 488 (sc-377506 AF488), Alexa Fluor® 546 (sc-377506 AF546), Alexa Fluor® 594 (sc-377506 AF594) or Alexa Fluor® 647 (sc-377506 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377506 AF680) or Alexa Fluor® 790 (sc-377506 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-377506 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

Rad26L (E-10) is recommended for detection of Rad26L isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Rad26L (E-10) is also recommended for detection of Rad26L isoforms 1 and 2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Rad26L siRNA (h): sc-92601, Rad26L siRNA (m): sc-152675, Rad26L shRNA Plasmid (h): sc-92601-SH, Rad26L shRNA Plasmid (m): sc-152675-SH, Rad26L shRNA (h) Lentiviral Particles: sc-92601-V and Rad26L shRNA (m) Lentiviral Particles: sc-152675-V.

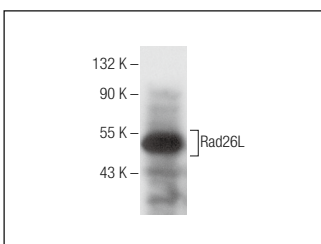
Molecular Weight of Rad26L isoforms 1/2: 81/60 kDa.

Positive Controls: mouse liver extract: sc-2256, LADMAC whole cell lysate: sc-364189 or WI-38 whole cell lysate: sc-364260.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Rad26L (E-10): sc-377506. Western blot analysis of Rad26L expression in WI-38 whole cell lysate.

STORAGE

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

RESEARCH USE

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