EPDR1 (F-6): sc-393819



The Power to Question

BACKGROUND

EPDR1 (ependymin related protein 1), also known as EPDR, UCC1 (up-regulated in colorectal cancer gene 1 protein), MERP1 or MERP-1 (mammalian ependymin-related protein 1 precursor), is a 244 amino acid type II transmembrane protein that is a member of the ependymin family. EPDR1 is expressed in various normal tissues with highest expression in adult bone marrow and umbilical cord. EPDR1 has a notable sequence similarity to ependymins (piscine glycoproteins that are synthesized in fibroblasts and secreted into cerebrospinal fluid), suggesting a conserved role between species. EPDR1 contains two glycosylation sites and a signal peptide and is thought to play a role in calcium-dependent cell adhesion. Two isoforms of EPDR1 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EPDR1 (human) mapping to 7p14.1; Epdr1 (mouse) mapping to 13 A2.

SOURCE

EPDR1 (F-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 68-87 within an internal region of EPDR1 of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lg G_3$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-393819 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

EPDR1 (F-6) is recommended for detection of EPDR1 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).

EPDR1 (F-6) is also recommended for detection of EPDR1 in additional species, including equine and bovine.

Suitable for use as control antibody for EPDR1 siRNA (h): sc-89709, EPDR1 siRNA (m): sc-144906, EPDR1 shRNA Plasmid (h): sc-89709-SH, EPDR1 shRNA Plasmid (m): sc-144906-SH, EPDR1 shRNA (h) Lentiviral Particles: sc-89709-V and EPDR1 shRNA (m) Lentiviral Particles: sc-144906-V.

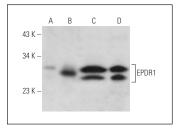
Molecular Weight of EPDR1: 25 kDa.

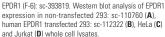
Positive Controls: EPDR1 (h): 293 Lysate: sc-112322, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

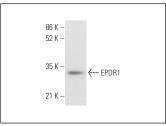
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG κ 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







EPDR1 (F-6): sc-393819. Western blot analysis of EPDR1 expression in C3H/10T1/2 whole cell lysate. Detection reagent used: m-lgG κ BP-HRP: sc-516102.

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.