

# RAIDD (G-7): sc-377080

## BACKGROUND

A cytoplasmic domain of approximately 80 amino acids has been identified in the apoptosis-mediating receptors of TNF-R1 and FAS. This region was determined to be necessary for the transduction of the apoptotic signal and was designated the "death domain". Other death domain-containing, but otherwise structurally unrelated, proteins were identified on the basis of their ability to associate with the cytoplasmic domains of TNF-R1 or FAS. The receptor interacting protein RIP is a death domain-containing serine/threonine kinase which associates with FAS or the TNF-R1 binding protein TRADD. RAIDD (RIP-associated ICH-1/Ced-3 homologous protein with a death domain) has been identified as a RIP binding protein that also associates with members of the caspase family, providing a link between activation of the TNF-Rs and the triggering of the cysteine protease cascade. The amino-terminal domain of RAIDD shares significant homology with the prodomain of ICH-1 and mediates the binding of RAIDD to this cysteine protease.

## REFERENCES

1. Tartaglia, L.A., et al. 1993. A novel domain within the 55 kd TNF receptor signals cell death. *Cell* 74: 845-853.
2. Cleveland, J.L., et al. 1995. Contenders in FasL/TNF death signaling. *Cell* 81: 479-482.
3. Hsu, H., et al. 1995. The TNF receptor 1-associated protein TRADD signals cell death and NF $\kappa$ B activation. *Cell* 81: 495-504.
4. Chinnaiyan, A.M., et al. 1995. FADD, a novel death domain-containing protein, interacts with the death domain of FAS and initiates apoptosis. *Cell* 81: 505-512.
5. Stanger, B.Z., et al. 1995. RIP: a novel protein containing a death domain that interacts with FAS/APO-1 (CD95) in yeast and causes cell death. *Cell* 81: 513-523.

## CHROMOSOMAL LOCATION

Genetic locus: CRADD (human) mapping to 12q22; Cradd (mouse) mapping to 10 C2.

## SOURCE

RAIDD (G-7) is a mouse monoclonal antibody raised against amino acids 1-199 representing full length RAIDD (RIP-associated ICH-1/Ced-3 homologous protein with a death domain) of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG $_1$  kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RAIDD (G-7) is available conjugated to agarose (sc-377080 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377080 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377080 PE), fluorescein (sc-377080 FITC), Alexa Fluor<sup>®</sup> 488 (sc-377080 AF488), Alexa Fluor<sup>®</sup> 546 (sc-377080 AF546), Alexa Fluor<sup>®</sup> 594 (sc-377080 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-377080 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-377080 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-377080 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

RAIDD (G-7) is recommended for detection of RAIDD of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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 RAIDD siRNA (h): sc-37387, RAIDD siRNA (m): sc-37388, RAIDD shRNA Plasmid (h): sc-37387-SH, RAIDD shRNA Plasmid (m): sc-37388-SH, RAIDD shRNA (h) Lentiviral Particles: sc-37387-V and RAIDD shRNA (m) Lentiviral Particles: sc-37388-V.

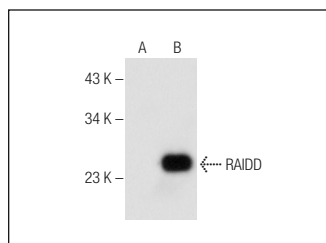
Molecular Weight of RAIDD: 22 kDa.

Positive Controls: RAIDD (m): 293T Lysate: sc-122950 or K-562 whole cell lysate: sc-2203.

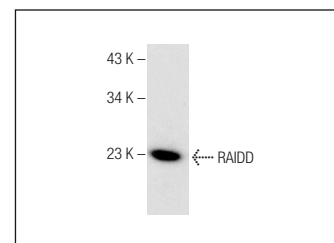
## RECOMMENDED SUPPORT REAGENTS

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

## DATA



RAIDD (G-7): sc-377080. Western blot analysis of RAIDD expression in non-transfected: sc-117752 (A) and mouse RAIDD transfected: sc-122950 (B) 293T whole cell lysates.



RAIDD (G-7): sc-377080. Western blot analysis of RAIDD expression in K-562 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.

Alexa Fluor<sup>®</sup> is a trademark of Molecular Probes, Inc., Oregon, USA