**BACKGROUND**

DRAM (damage-regulated autophagy modulator) is a multi-pass membrane protein that belongs to the TMEM77 family of proteins and localizes to the lysosome membrane. DRAM is a highly conserved protein across many species and contains six transmembrane domains and an endoplasmic reticulum (ER) signal peptide. Its expression is induced by both p53 and p73, and it acts as a key player that is required (but not sufficient) for p53-induced autophagy and apoptosis. Although its expression is also induced by p73, DRAM is dispensable for p73-mediated apoptosis. As suggested by its lysosomal localization, DRAM may participate in the degradation of proteins or in trafficking through the secretory pathway. In addition, DRAM expression is downregulated in human cancers, implying a profound role for DRAM in tumor development.

**CHROMOSOMAL LOCATION**

Genetic locus: DRAM1 (human) mapping to 12q23.2; Dram1 (mouse) mapping to 10 C1.

**SOURCE**

DRAM (H-128) is a rabbit polyclonal antibody raised against amino acids 111-238; deletion 194-224 mapping at the C-terminus of DRAM of human origin.

**PRODUCT**

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

**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.

**APPLICATIONS**

DRAM (H-128) is recommended for detection of DRAM of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000). DRAM (H-128) is also recommended for detection of DRAM in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DRAM siRNA (h): sc-96209, DRAM siRNA (m): sc-143169, DRAM shRNA Plasmid (h): sc-96209-SH, DRAM shRNA Plasmid (m): sc-143169-SH, DRAM shRNA (h) Lentiviral Particles: sc-96209-V and DRAM shRNA (m) Lentiviral Particles: sc-143169-V.

Molecular Weight of DRAM: 26 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.