Raptor (10E10): sc-81537

**BACKGROUND**

Regulatory associated protein of FRAP, also designated Raptor, is a binding partner for mammalian target of Rapamycin kinase (FRAP) and is essential for FRAP signaling in vivo. Raptor binding to FRAP is critical for FRAP-catalyzed substrate phosphorylation of 4E-BP1. The Raptor-FRAP complex is nutrient-sensitive and is important for a mechanism by which cells coordinate cell growth and size with changing environmental conditions. Raptor serves as a negative regulator of FRAP kinase activity under nutrient-deprived conditions and is an important component in the FRAP pathway. Raptor is highly expressed in skeletal muscle and to a lesser extent in brain, kidney, lung and placenta.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: RPTOR (human) mapping to 17q25.3; Rptor (mouse) mapping to 114 K–116 K; Rptor (canine) mapping to 114 K–116 K.

**SOURCE**

Raptor (10E10) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to partial Raptor of human origin.

**PRODUCT**

Each vial contains 50 µg IgG; kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, PEG and sucrose.

**APPLICATIONS**

Raptor (10E10) is recommended for detection of Raptor of mouse, rat, human and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)).

Raptor (10E10) is also recommended for detection of Raptor in additional species, including canine.


Molecular Weight of Raptor isoforms 1/2/3: 149/43/132 kDa.

Positive Controls: U-251-MG whole cell lysate: sc-364176, PANC-1 whole cell lysate: sc-364380 or A-431 whole cell lysate: sc-2201.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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