

## Product datasheet for **TA328101**

### Raptor (RPTOR) Rabbit Polyclonal Antibody [Clone ID: Poly6232]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Poly6232
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide-KLH
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.
Purification:	The antibody was purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	150 kD
Gene Name:	regulatory associated protein of MTOR complex 1
Database Link:	<a href="#">NP_065812</a> <a href="#">Entrez Gene 57521 Human</a> <a href="#">Q8N122</a>



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**Background:**

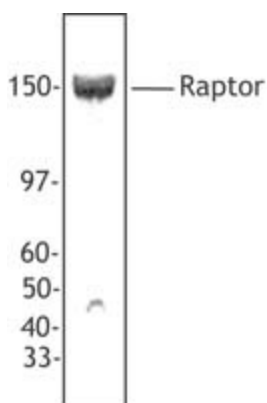
Raptor, also known as regulatory associated protein of mTOR, is a scaffold protein of approximately 150 kD that is highly expressed in skeletal muscle. Raptor functions as an essential scaffold for mTOR-catalyzed phosphorylation of 4EBP1 critical for TOR activity in vivo. Raptor is involved in nutrient-stimulated signaling to the downstream effector RPSKB1 and has been shown to negatively regulate the FRAP1 kinase under conditions of nutrient deprivation. Raptor/FRAP1 interactions are critical for the coordination of cell size and cell growth under different environmental conditions. The Raptor protein has been shown to interact with mTOR, 4EBP1, RPS6KB1 and FRAP1. The Poly6232 antibody recognizes human Raptor and has been shown to be useful for Western blotting.

**Synonyms:**

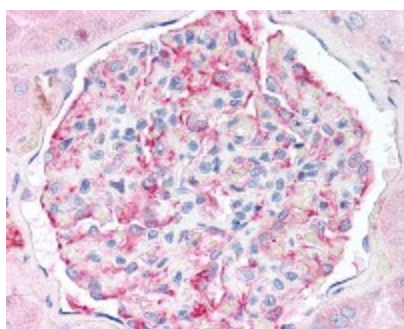
KOG1; Mip1

**Protein Pathways:**

Insulin signaling pathway, mTOR signaling pathway

**Product images:**

293T cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-Raptor antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



Formalin-fixed paraffin-embedded human kidney tissue was stained with Poly6232 and developed with an alkaline phosphatase chromogen substrate (red color). Tissue was counterstained with H&E (blue/pink). Magnification, 40X.