

Product Data Sheet

Purified anti-Raptor

Catalog # / Size: 623202 / 200 µl (20 Western blots)

Clone: Poly6232

Isotype: Rabbit IgG

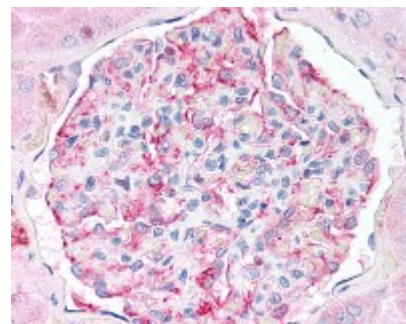
Immunogen: Peptide-KLH

Reactivity: Human

Preparation: The antibody was purified by antigen-affinity chromatography.

Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

Storage: Upon receipt, store frozen at -20° C.



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.

Applications:

Applications: WB - Quality tested
IHC - Validated

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For IHC, use a 1:50 dilution of antibody for staining. Antigen retrieval for IHC of formalin-fixed paraffin-embedded tissue using 0.01 M sodium citrate buffer is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Description: 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.

Antigen References:

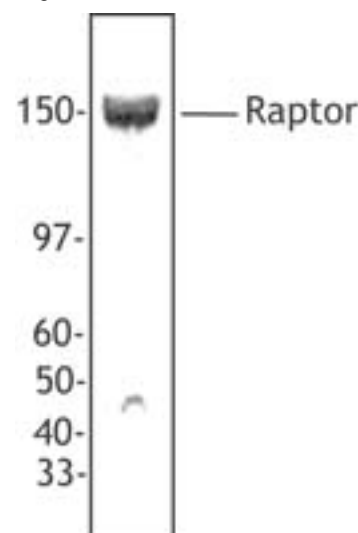
1. Hara K, et al. 2002. Cell 110:177.
2. Yonezawa K, et al. 2004. Biochem. Biophys. Res. Commun. 313:437.
3. Kim DH, et al. 2002. Cell 110:163.
4. Oshiro N, et al. 2004. Genes Cells 9:359.

Related Products:

Product
HRP Donkey anti-rabbit IgG (minimal x-reactivity)

Clone
Poly4064

Application
ELISA, IHC, WB



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.



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