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# Immunotag™ RICTOR Antibody

## Antibody Specification

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| Catalog No. | ITA7563 |
| Product Description | Immunotag™ RICTOR Antibody |
| Size | 100 µg, 200 µg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | RICTOR |
| Clonality | Polyclonal |
| Storage/Stability | -20°C/1 year |
| Application | WB,IHC,ELISA |
| Recommended Dilution | WB 1:1000-3000 IHC 1:200 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat |
| Host Species | Rabbit |
| Immunogen | A synthesized peptide derived from human RICTOR |
| Specificity | RICTOR Antibody detects endogenous levels of total RICTOR |
| Purification | The antiserum was purified by peptide affinity chromatography. |
| Form | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt |
| Gene Name | RICTOR |
| Accession No. | Q6R327 |
| Alternate Names | AVO3; AVO3 homolog; DKFZp686B11164; hAVO3; KIAA1999; Likely ortholog of mouse TORC2 specific protein AVO3 (S. cerevisiae); mAVO3; MGC39830; PIA; Pianissimo; Rapamycin insensitive companion of mTOR; Rapamycin-insensitive companion of mTOR; Rictor; RICTR; RICTR_HUMAN; RPTOR independent companion of MTOR complex 2; TORC2 specific protein AVO3; |

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| Description | Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic growth and development. |
| Cell Pathway/ Category | Primary Polyclonal Antibody |
| Protein MW | 192 kDa |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |