

Immunotag™ Phospho-C-RAF (Ser621) Antibody

| Antibody Specification | |
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| Catalog No. | ITA0834 |
| Product Description | Immunotag™ Phospho-C-RAF (Ser621) 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 | Phospho-C-RAF (Ser621) |
| Clonality | Polyclonal |
| Storage/Stability | -20°C/1 year |
| Application | WB,IHC,IF/ICC,ELISA |
| Recommended Dilution | WB 1:500-1:2000 IHC 1:50-1:200 IF/ICC 1:100-1:500 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat |
| Host Species | Rabbit |
| Immunogen | A synthesized peptide derived from human C-RAF around the phosphorylation site of Serine 621 |
| Specificity | Phospho-C-RAF (Ser621) Antibody detects endogenous levels of C-RAF only when phosphorylated at Serine 621 |
| Purification | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| 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 | RAF1 |
| Accession No. | P04049 |

Antibody Specification

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| Alternate Names | c Raf; C-raf; C-Raf proto-oncogene, serine/threonine kinase; CMD1NN; Craf 1 transforming gene; cRaf; Craf1 transforming gene; EC 2.7.11.1; kinase Raf1; Murine sarcoma 3611 oncogene 1; NS5; Oncogene MIL; Oncogene RAF1; OTTHUMP00000160218; OTTHUMP00000207813; OTTHUMP00000209389; Protein kinase raf 1; Proto-oncogene c-RAF; Raf 1; Raf 1 proto oncogene serine/threonine kinase; RAF; Raf proto oncogene serine/threonine protein kinase; RAF proto-oncogene serine/threonine-protein kinase; RAF-1; RAF1; RAF1_HUMAN; Similar to murine leukemia viral (V-raf-1) oncogene homolog 1; TRANSFORMING REPLICATION-DEFECTIVE MURINE RETROVIRUS 3611-MSV; v raf 1 murine leukemia viral oncogene homolog 1; v-raf murine sarcoma viral oncogene homolog 1; v-raf-1 murine leukemia viral oncogene-like protein 1; vraf1 murine leukemia viral oncogene homolog 1; |
| Description | Serine/threonine-protein kinase that acts as a regulatory link between the membrane-associated Ras GTPases and the MAPK/ERK cascade, and this critical regulatory link functions as a switch determining cell fate decisions including proliferation, differentiation, apoptosis, survival and oncogenic transformation. RAF1 activation initiates a mitogen-activated protein kinase (MAPK) cascade that comprises a sequential phosphorylation of the dual-specific MAPK kinases (MAP2K1/MEK1 and MAP2K2/MEK2) and the extracellular signal-regulated kinases (MAPK3/ERK1 and MAPK1/ERK2). The phosphorylated form of RAF1 (on residues Ser-338 and Ser-339, by PAK1) phosphorylates BAD/Bcl2-antagonist of cell death at 'Ser-75'. Phosphorylates adenylyl cyclases: ADCY2, ADCY5 and ADCY6, resulting in their activation. Phosphorylates PPP1R12A resulting in inhibition of the phosphatase activity. Phosphorylates TNNT2/cardiac muscle troponin T. Can promote NF-kB activation and inhibit signal transducers involved in motility (ROCK2), apoptosis (MAP3K5/ASK1 and STK3/MST2), proliferation and angiogenesis (RB1). Can protect cells from apoptosis also by translocating to the mitochondria where it binds BCL2 and displaces BAD/Bcl2-antagonist of cell death. Regulates Rho signaling and migration, and is required for normal wound healing. Plays a role in the oncogenic transformation of epithelial cells via repression of the TJ protein, occludin (OCLN) by inducing the up-regulation of a transcriptional repressor SNAI2/SLUG, which induces down-regulation of OCLN. Restricts caspase activation in response to selected stimuli, notably Fas stimulation, pathogen-mediated macrophage apoptosis, and erythroid differentiation. |
| Cell Pathway/ Category | Primary Polyclonal Antibody |
| Protein MW | 74kDa |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |