

U-Blot[®] Phospho-FGFR1 (Tyr653/654) Mouse mAb (WT9069)

User Manual

General Information

Product name	U-Blot [®] Phospho-FGFR1 (Tyr653/654) Mouse mAb
Product No.	WT9069
Clonality	Recombinant monoclonal
Clone Number	W-R43
Alternative name	BFGF, CEK, FGFBR, FLG, FLT2, HBGFR, FGFR1

Key Features

Target	Phospho-FGFR1 (Tyr653/654)
Reactivity	Human
Applications	WB
MW(Calculated)	120 kDa, 145 kDa
MW(Observed)	120 kDa, 145 kDa
Host Species	Mouse
Isotype	IgG2B/Kappa
Conjugate	Unconjugated
Modification	Phosphorylation
Modification Site	Tyr653/654
Purification	Protein A affinity purification
Immunogen	Polypeptide
Specificity	Specific for FGFR1 only when phosphorylated at Tyr653/654

Storage Information

Storage	Store at -20°C. Avoid repeated freeze-thaw cycles
Stability	Stable for 12 months from date of receipt / reconstitution.
Formulation	PBS, Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:500-1000	Human

Target Information

Gene name	FGFR1
Protein name	Fibroblast growth factor receptor 1
Organism	Human
Gene ID	2260
SwissProt	P11362
Background	Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation.
Cellular Localization	Cytoplasm, Cytoplasmic vesicle, Membrane, Nucleus

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