Data Sheet (Cat.No.TMAB-10701)

TargetMol

Anti-Phospho-FGFR1+FGFR2 (Tyr463/Tyr466) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 88 kDa. Actual: 73 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: U87Mg (Human) Cell Lysate at 30 μg Primary: Anti-Phospho-FGFR1+FGFR2 (Tyr463/Tyr466) (TMAB-10701) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 88 kD Observed band size: 73 kD 2. Paraformaldehyde-fixed, paraffin embedded (Human glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-FGFR1+FGFR2 (Tyr463 Tyr466)) Polyclonal Antibody, Unconjugated (TMAB-10701) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-FGFR1+FGFR2 (Tyr463 Tyr466)) Polyclonal Antibody, Unconjugated (TMAB-10701) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 4. Antigen: 1.phosphopeptide (blue),0.2 μg/100 μl; 2.non-phosphopeptide (red),0.2 μg/100 μl; Primary: Antibody, 1: 200, 1:400, 1:800, 1:1600, 1:3200, 1: 6400, 1:12800; Secondary: HRP conjugated Goat Anti-Rabbit igg (BGoat Anti-Rabbit IgG H&L Secondary Antibody-HRP) at 1:5000; TMB staining: Read the data in Microplate Reader by 450 nm 5. Paraformaldehyde-fixed, paraffin embedded (human laryngeal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-FGFR1+FGFR2 (Tyr463/Tyr466)) Polyclonal Antibody, Unconjugated (TMAB-10701) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 6. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-FGFR1+FGFR2 (Tyr463/Tyr466)) Polyclonal Antibody, Unconjugated (TMAB-10701) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 7. Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in

	sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Phospho-FGFR1+FGFR2 (Tyr463/Tyr466)) Polyclonal Antibody, Unconjugated (TMAB-10701) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	WB,IHC-P,IHC-Fr,IF,ELISA
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; ELISA: 1:5000-10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human FGFR1 around the phosphorylation site of Tyr463
Antigen Species:	Human
Gene ID:	2260
Uniprot ID:	P11362

Research Background

Fibroblast growth factors (FGFs) produce mitogenic and angiogenic effects in target cells by signaling through the cellular surface tyrosine kinase receptors. There are four members of the FGF receptor family: FGFR-1 (flg), FGFR-2 (bek, KGFR), FGFR-3 and FGFR-4. Each receptor contains an extracellular ligand binding domain, a transmembrane region and a cytoplasmic kinase domain (1). Following ligand binding and dimerization, the receptors are phosphorylated at specific tyrosine residues (2). Seven tyrosine residues in the cytoplasmic tail of FGFR-1 can be phosphorylated: Tyr463, Tyr583, Tyr585, Tyr653, Tyr654, Tyr730 and Tyr766. Tyrosine 653 and 654 are important for catalytic activity of the activated FGFR and are essential for signaling (3). The other phosphorylated tyrosine residues may provide docking sites for downstream signaling components such as Crk and PLCgamma.

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