Data Sheet (Cat.No.TMAC-03209)

Anti-Phospho-EGFR (Tyr1092) Antibody (6T663)

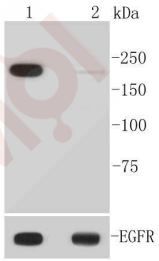
Product Details

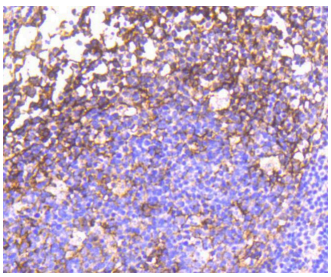
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 170 kDa.
Clone:	6T663
Purification:	ProA affinity purified

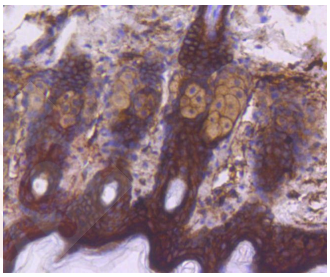
Applications

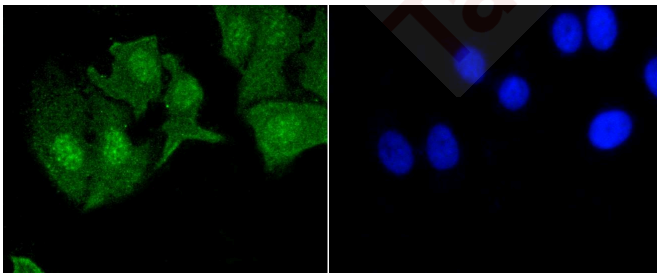
Verified Activity:

1. Western blot analysis of Phospho-EGFR (Y1092) on different lysates using anti-Phospho-EGFR (Y1092) antibody at 1/1,000 dilution. Positive control: Lane 1: A431 treated with EGF, Lane 2: Untreated A431.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-EGFR (Y1092) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-Phospho-EGFR (Y1092) antibody. Counter stained with hematoxylin.
4. ICC staining Phospho-EGFR (Y1092) in BT-20 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.









Application: ICC/IF,IHC,WB

Recommended: WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human EGFR around the phosphorylation site of Tyr1092

Antigen Species: Human

Uniprot ID: P00533

Synonyms: EGFR (p-Tyr1092);p-EGFR (Tyr1092);EGFR (p-Y1092);p-EGFR (Y1092)

Research Background

Epidermal growth factor mediates its effects on cell growth through its inter-action with a cell surface glycoprotein designated the EGF receptor. Binding of EGF or TGF alpha to the EGF receptor activates tyrosine-specific protein kinase activity intrinsic to the EGF receptor. The carboxy terminal tyrosine residues on EGFR, Tyr 1068 and Tyr 1173, are the major sites of autophosphorylation, which occurs as a result of EGF binding. Once activated, EGFR mediates the binding of the phosphotyrosine binding (PTB) domain of GRB2 through direct interactions with Tyr 1068 and Tyr 1086 and through indirect interactions with Tyr 1173 in the Ras signaling pathway. Tyr 1173 of EGFR also functions as a kinase substrate. Phosphorylation of Tyr 992, Tyr 1068 and Tyr 1086 is required for conformational change in the C-terminal tail of the EGF receptor.

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