Data Sheet (Cat.No.TMAC-01425)

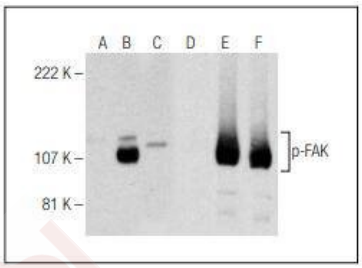
Anti-Phospho-PTK2 (Ser 722) Antibody (7J439)

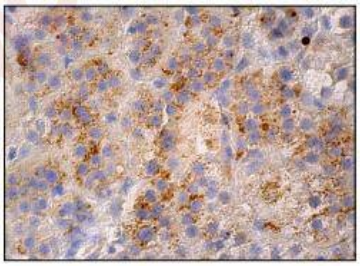
Product Details

Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 125 kDa.
Clone:	7J439
Purification:	ProA affinity purified

Applications

Verified Activity:	1. A.Western blot analysis of FAK phosphorylation in non-transfected:(A,D), untreated human FAK transfected:(B,E) and lambda protein phosphatase treated human FAK transfected:(C,F) 293T whole cell lysates. Antibodies tested include p-FAK (A-12):(A,B,C) and FAK (C-903):(D,E,F). 2. B.Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.





Application:	IF,IHC-P,IP,WB
Recommended	WB: 1:100-1000; IHC-P: 1:50-500; IP: 1-2 μg per 100-500 μg of total protein(1 ml of cell lysate)

Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Peptide

Uniprot ID: Q05397

Synonyms: p-PTK2 (S 722);PTK2 (p-S 722);PTK2 (p-Ser 722);p-PTK2 (Ser 722)

Research Background

Activation of integrins in the extracellular matrix (ECM) of eukaryotic cells promotes the formation of membrane adhesion complexes, known as focal adhesions, which can include cytoskeletal proteins and protein tyrosine kinases, such as focal adhesion kinase (FAK). Phosphorylation events occurring within focal adhesions influence numerous processes that include mitogenic signaling, cell survival and cell motility. FAK is a non-receptor tyrosine kinase that is ubiquitously expressed and highly conserved between species. FAK is recruited by integrin clusters and variably phosphorylated depending on the effector molecules present in the focal adhesion. Phospho-rylation of FAK Tyr 397 decreases during serum starvation, contact inhibition and cell cycle arrest, all conditions under which activating FAK Tyr 407 phosphorylation increases.