

## Basic Information

<b>Product Name</b>	Anti-FAK/PTK2 Antibody	
<b>Gene Name</b>	PTK2	
<b>Source</b>	Rabbit	
<b>Clonality</b>	Polyclonal	
<b>Isotype</b>	IgG	
<b>Species Reactivity</b>	human, mouse, rat	
<b>Tested Application</b>	WB, IHC	
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
<b>Immunogen</b>	A synthetic peptide corresponding to a sequence at the C-terminus of human PTK2 identical to the related mouse and rat sequences.	
<b>Concentration</b>	500 ug/ml	
<b>Purification</b>	Immunogen affinity purified.	
<b>Observed MW</b>	119 kDa	
<b>Dilution Ratios</b>	Western blot (WB): Immunohistochemistry (IHC): (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	1:500-2000 1:50-400

## Storage

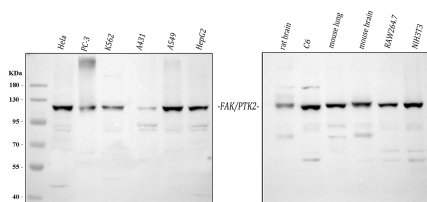
12 months from date of receipt, -20°C as supplied.

## Background Information

PTK2 protein tyrosine kinase 2 (PTK2), also known as Focal Adhesion Kinase (FAK), is a protein that, in humans, is encoded by the PTK2 gene. This gene encodes a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene, but the full-length nature

of only three of them have been determined.

## Selected Validation Data



Western blot analysis of anti-PTK2 antibody (PB0662). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,

Lane 2: human PC-3 whole cell lysates.

Lane 3: human K562 whole cell lysates,

Lane 4: human A431 whole cell lysates,

Lane 5: human A549 whole cell lysates,

Lane 6: human HepG2 whole cell lysates,

Lane 7: rat brain tissue lysates,

Lane 8: rat C6 whole cell lysates,

Lane 9: mouse lung tissue lysates,

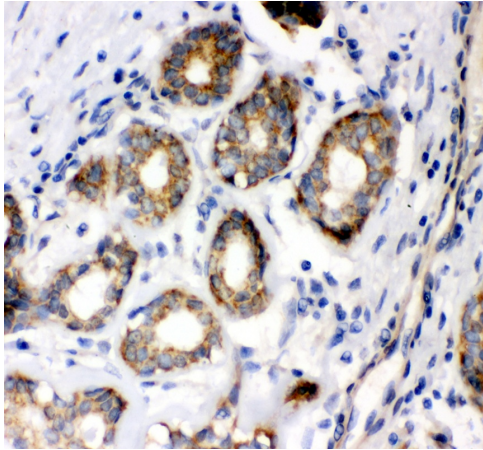
Lane 10: mouse brain tissue lysates,

Lane 11: mouse RAW264.7 whole cell lysates,

Lane 12: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-PTK2 antigen affinity purified polyclonal antibody (PB0662) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for PTK2 at approximately 125 kDa. The expected band size for PTK2 is at 119 kDa.



IHC analysis of FAK/PTK2 using anti-FAK/PTK2 antibody (PB0662). FAK/PTK2 was detected in a paraffin-embedded section of human breast cancer tissue. The tissue section was incubated with rabbit anti-FAK/PTK2 Antibody (PB0662) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.