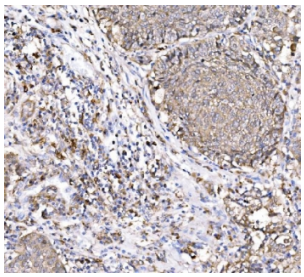
PAK1 Antibody (RQ6571)

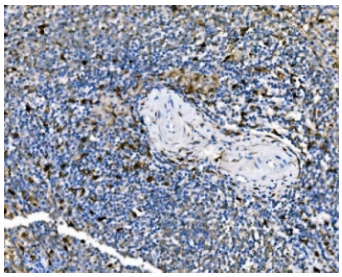
Catalog No.	Formulation	Size
RQ6571	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

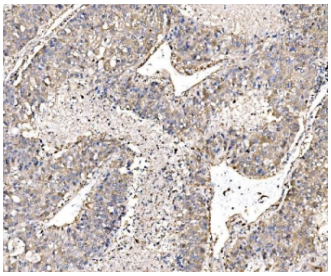
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13153
Localization	Nuclear, cytoplasmic, cell membrane
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This PAK1 antibody is available for research use only.



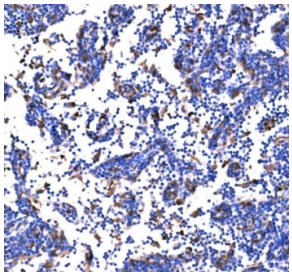
IHC staining of FFPE human lung cancer tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



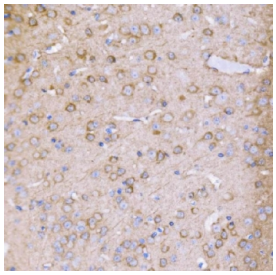
IHC staining of FFPE human spleen tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



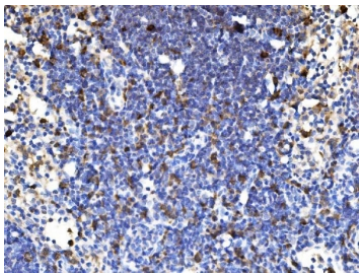
IHC staining of FFPE human liver cancer tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



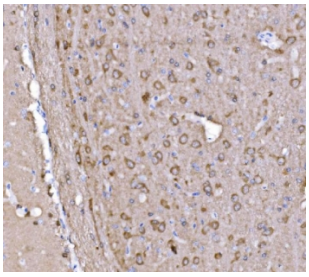
IHC staining of FFPE mouse lymph node tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



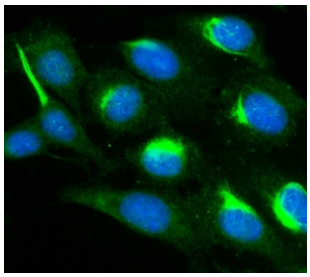
IHC staining of FFPE mouse brain tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



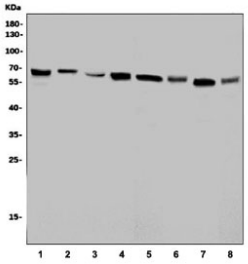
IHC staining of FFPE rat lymph node tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



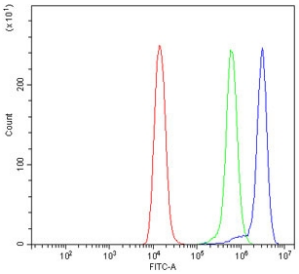
IHC staining of FFPE rat brain tissue with PAK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human U-2 OS cells with PAK1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HEK293, 2) human SH-SY5Y, 3) human K562, 4) human Jurkat, 5) rat brain, 6) rat PC-12, 7) mouse brain and 8) mouse NIH 3T3 cell lysate with PAK1 antibody. Expected molecular weight: 60-70 kDa.



Flow cytometry testing of human Raji cells with PAK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PAK1 antibody.

Description

Serine/threonine-protein kinase PAK 1 is an enzyme that in humans is encoded by the PAK1 gene. PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activated kinases, include PAK1, PAK2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell motility and morphology. Alternative transcripts of this gene have been found, but their full-length natures have not yet been determined. The PAK1 gene is mapped to 11q13-q14 by inclusion within a mapped clone.

Application Notes

Optimal dilution of the PAK1 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids Q122-K243) was used as the immunogen for the PAK1 antibody.

Storage

After reconstitution, the PAK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.