

Anti-PBK/TOPK Antibody (6C84)

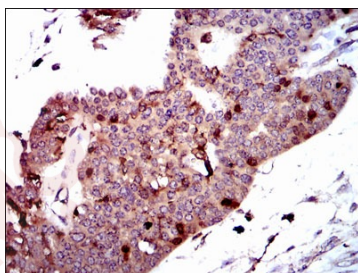
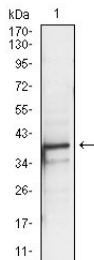
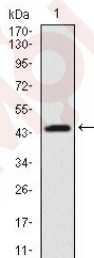
Product Details

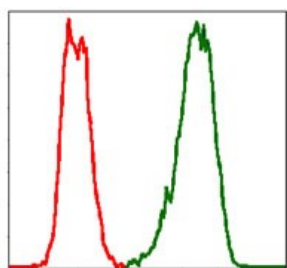
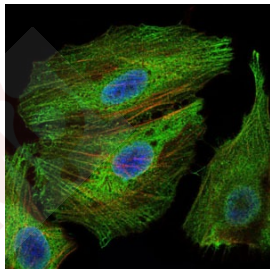
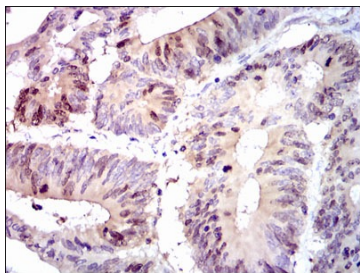
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 36 kDa.
Clone:	6C84
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of PBK on human PBK recombinant protein using anti-PBK antibody at 1/1,000 dilution.
2. Western blot analysis of PBK on A431 cell lysate using anti-PBK antibody at 1/1,000 dilution.
3. Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissue using anti-PBK antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PBK antibody. Counter stained with hematoxylin.
5. ICC staining PBK (green) and actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. Flow cytometric analysis of Hela cells with PBK antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).





Application: FCM, ICC, IHC, WB

Recommended WB: 1:500; IHC: 1:100-500; ICC: 1:100-500; FCM: 1:100-200

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: Recombinant Protein

Uniprot ID: Q96KB5

Synonyms: PDZ binding kinase; TOPK; Nori-3; SPK; CT84; HEL164

Research Background

Protein kinases comprise a large group of encoded factors that regulate cellular processes by catalyzing the transfer of a phosphate group to a hydroxyl acceptor in serine, threonine or tyrosine residues. Kinases are capable of influencing the oncogenic potential of cell systems at the level of oncoprotein or tumor suppressor protein phosphorylation states. Human PDZ-binding kinase, known as PBK, is a 322 amino acid, T/SXV motif-containing serine/threonine kinase that is abundant in placenta and absent from adult brain tissue. A PDZ domain in the tumor suppressor protein Dlg can coordinate with the T/SXV motif of PBK. The cell cycle checkpoint kinase Cdc2/cyclin B is an upstream effector of PBK that can phosphorylate and activate PBK. Active PBK may associate with PDZ-containing proteins and influence cell cycle control or cellular proliferation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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