



## PAK4 Rabbit Polyclonal Antibody

### Catalog #: EAB13272

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, ELISA	64	Human, Mouse, Rat

### Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB(Western Blotting)	1:500-2000
ELISA(Enzyme-linked Immunosorbent Assay)	1:5000-20000

### Product Information

Conjugate	Unconjugate
Specificity	PAK4 Rabbit Polyclonal Antibody detects endogenous levels of PAK4 protein.
Purification	Affinity purification
Concentration	1mg/ml
Format	Liquid
Formulation	In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol.
Shipping	Gel Pack
Storage	Store at -20°C least 1 year from the date of shipment. Avoid repeated freeze/thaw cycles. Aliquots may be stored at +4°C for 1-2 weeks.
UniProt ID	<a href="#">O96013</a>
Entrez-Gene ID	<a href="#">10298</a>

### Product Description

PAK4 is a serine/threonine kinase that plays a crucial role in various cellular processes, including cell motility, proliferation, and survival, making PAK4 an important target for understanding cancer progression and metastasis. PAK4 is primarily located in the cytoplasm and translocates to the Golgi apparatus upon activation, where PAK4 interacts with polymerized actin clusters and beta coat proteins, highlighting PAK4's involvement in cytoskeletal dynamics and intracellular signaling. PAK4's interaction with GTP-bound CDC42 and ability to phosphorylate downstream substrates, such as MEK kinase, underscore PAK4's significance in the JNK signaling pathway, which is vital for cellular responses to stress and growth factors. The gene encoding PAK4 is located on human chromosome 19, and PAK4 expression is notably high in tissues such as the prostate, testis, and colon, indicating PAK4's potential role in tissue-specific functions and disease states.

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