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Anti-pan AKT (phospho Ser473) Rabbit mAb [46C96]

Catalog No.: A52006

Basic Information

Catalog No. (Cat.No.)	A52006
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	pan AKT (phospho Ser473),p-Akt-pan(Ser473),p-AKT(S473) Pan-Specific

Product Information

Target	pan AKT (phospho Ser473)
Molecular Weight(Calculated)	55 kDa
Molecular Weight(Observed)	60 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	46C96
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:500
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	pan AKT (phospho Ser473)
Gene Name	*AKT1,AKT2,AKT3*
Domain	NA
Background	Phospho-AKT (Ser473) belongs to the activated form of pan-Akt serine/threonine kinase family, covering the phosphorylated status of Akt1, Akt2 and Akt3 isoforms. Ser473 is a critical regulatory phosphorylation site located at the C-terminal hydrophobic motif of Akt, whose full phosphorylation is essential for complete Akt kinase activation and maximal downstream signaling transduction. Activated p-Akt (Ser473) acts as a central effector of the PI3K signaling cascade, participating in the regulation of cell survival, anti-apoptosis, glucose metabolism, cell cycle progression and tumorigenesis. Dysregulated phosphorylation of Akt Ser473 is frequently observed in malignant tumors, insulin resistance, inflammatory diseases and tissue fibrosis, serving as a key indicator of aberrant PI3K/Akt pathway activation.