

Akt2 rabbit pAb**Cat#: orb764511 (Manual)**

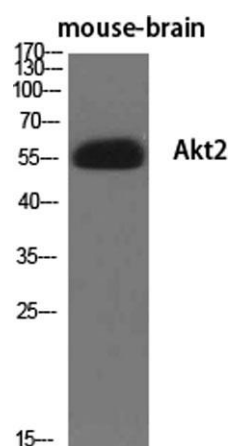
For research use only. Not intended for diagnostic use.

Product Name	Akt2 rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Akt2. AA range:432-481
Specificity	Akt2 Polyclonal Antibody detects endogenous levels of Akt2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	RAC-beta serine/threonine-protein kinase
Gene Name	AKT2
Cellular localization	Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein. Early endosome . Localizes within both nucleus and cytoplasm of proliferative primary myoblasts and mostly within the nucleus of differentiated primary myoblasts. By virtue of the N-terminal PH domain, is recruited to sites of the plasma membrane containing increased PI(3,4,5)P3 or PI(3,4)P2, cell membrane targeting is also facilitated by interaction with CLIP3. Colocalizes with WDFY2 in early endosomes (By similarity). .

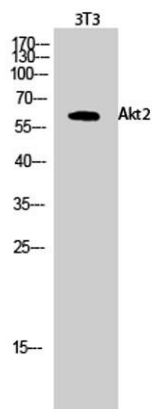
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	56kD
Human Gene ID	208
Human Swiss-Prot Number	P31751
Alternative Names	AKT2; RAC-beta serine/threonine-protein kinase; Protein kinase Akt-2; Protein kinase B beta; PKB beta; RAC-PK-beta

Background

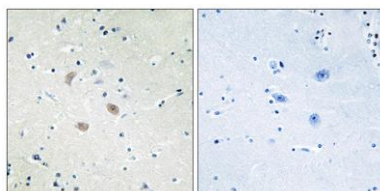
This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phosphorylating several known proteins. [provided by RefSeq, Jul 2008],



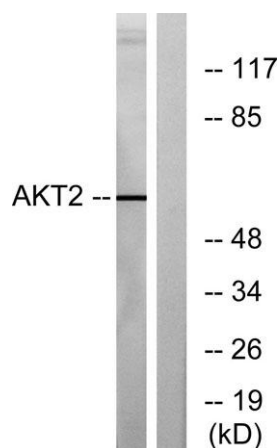
Western Blot analysis of various cells using Akt2 Polyclonal Antibody diluted at 1:500



Western Blot analysis of 3T3 cells using Akt2 Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Akt2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A2780 cells, treated with TNF- α , using Akt2 Antibody. The lane on the right is blocked with the synthesized peptide.