

AibGenesis™ Mouse Anti-AKT2 Antibody (CBMOAB-2001FYC)

Cat. No.: CBMOAB-2001FYC

Specifications

Host species	Mouse (<i>Mus musculus</i>)
Clone	MO2001FC
Specificity	This antibody binds to Arabidopsis AKT2.
Format	Liquid or Lyophilized
Storage	Store at 4°C: short-term (1-2weeks) Store at -20°C: long-term and future use
Purity	> 90% was determined by SDS-PAGE
Purification	Purified with Protein A or G affinity chromatography
Cellular Localization	Endoplasmic reticulum; Other locations

Application-Information

Application	WB, ELISA
Application Notes	ELISA: 1:1000-1:3000 Other applications are to be developed. The optimal dilution should be determined by the end user.

Target

Introduction	Highly selective and weak inward-rectifying potassium channel. Plays a role in both loading and unloading potassium into/from the phloem sap. Seems to control sugar loading into phloem via a voltage-dependent process. Blocked by physiological concentrations of external calcium and by external acidification. May interact with the cytoskeleton or with regulatory proteins. Dephosphorylation by PP2CA not only leads to the inhibition of potassium currents but also to an increase of the voltage-dependence of the channel. Regulated by the CBL4/CIPK6 calcium sensor/protein kinase complex via a kinase interaction-dependent but phosphorylation-independent translocation of the channel to the plasma membrane. (From uniprot, under CC BY 4.0)
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Product Overview Mouse Anti-Arabidopsis AKT2 Antibody is a mouse antibody against AKT2. It can be used for AKT2 detection in Western Blot, Enzyme-Linked Immunosorbent Assay.

Protein Refseq The length of the protein is 802 amino acids long. The sequence is show below: MDLKYSASHCNLSSDMK LRRFHQHRGKGREEEYDASSLSLNNLSKLILPLGVASYNQNH IRSSGWIIISPMDSRYRCWEFYMVLLVAY SAWVYPFEVAF LNSSPKRNLCIADNIVDLFFA VDIVLTFFVAYIDERTQLLVREPKQIAVRYLSTWFLMDVASTI PFDAIGYLITGTSTLNI TCNLLGLLRFWRLRRVKHLFTRLEKDIRYSYFWIRCFRLSVTLFLVHCAGCSYYLI ADR YPHQGKTWTD AIPNFTETSL S I RYIAAIYWSITMTTVGYGDLHASNTIEMVFITVYMLF NLGLTAYLIGN MTNLVVEGTRRTMEFRNSIEAASN FVN RNLPPRLKDQILAYMCLRFKA ESLNQQLHLDQLPKSIYKSICQH LFLPSVEKVYLFKGV SREILL LVSKMKA EYIPRED VIMQNEAPDDVYIIVS GEVEIIDSEMERESVLGTLRC GDIFGEVGALCCRPQSYTFQTKS LSQLLRLKTSFLIETMQIKQQDNATMLKNFLQH HKKLSNLDIGDLKAQQ NGENTDVVPPN IASNLI AVTTGNAALLDELLKAKLSPDITDSKGKTP LHVAASRGYEDCVLVLLKHGCNI HI RDVNGNSALWEAII SKHYE IFRILYHFAAISDPHIAGDLLCEAAKQNNVEVMKALLKQ GLNVDTEDHHGV TAL QVAMAEDQMDMVNLLATNGADVVCVNTHNEFTPLEKLRVVEEEEE EERGRVSIYRGHPLERRERS CNEA GKLILLPPSLDDLKKIAGEKFGFDGSETMTVNEDGA EIDSIEVIRDNDKLYFVVKII.

Sub Cat	Clonalit y	Species	Reactivity	Applicati on	Clone	Conjugate	Size
CBMOAB-65416	Monoclonal	Zebrafish (<i>Danio rerio</i>)		WB, ELISA	MO65416F	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg

Protein Refseq: The length of the protein is 479 amino acids long. The sequence is show below: MNEISVVREGWLHKGREYIKTWPRPYFILKSDGSFIGYKEKPETSDANQPPLNNFSVAECQLMKTERPRPNTFVI RCLQWTTVIERTFHV DSN SEREEWIRAIQAVANGLKSREEDEPMDINFGSPGDNSLEGMEAAITKSRTKVTMSDFDYLLKLGKGTFGKVILVREKA TGMYIAMKI LRKEVIIAKDEVAHTITESRVLQNTRHPFLTTLKYAFQTRDRLCFVMEYANGGELFFHLSRERVFTEDRARFYGAEIVSALEYLHSKD VV YRDLKLENLMLDKDGHKITDFGLCKEGITNEATMKTF CGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERLFELI LM EEIRFPRNLSPEAKALLAGLLKKDPKQRLGGGPEDAKEVMTHKFFNNMNWQDVLQKKLVPPFKPQVTSETDTRYFDDEFTAQTITVTP PDQYDS LDAEDPDTRTHFSQFSYSASVRE.

CBMOAB-00464	Monoclonal	C. elegans (<i>Caenorhabditis elegans</i>)		WB, ELISA	MO00464H	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq: The length of the protein is 528 amino acids long. The sequence is show below: MSTENAH LQKEDIVIESWLHKKGEHIRNWR PRYFILFRDGTLLGFRSKPKEDQPLPEPLNNFMIRDAATVCLDKPRPNMFIVRCLQWTTV IERTFYADSADFRQMWIEAIQAVSSHNR LKENAGNT SMQEEDTNGNPSGESDVNMDATSTRSDNDFESTVMNIDEPEEVPRKNTVTMDDF DFLKVLGGGTFGKVILCREKSSDKLYAIKIIRKEMVVDRSE VAHTLTENRVLYACVHPFLTLLKYSFQAQYHICFVMEFANGGELFTHLQ RCKTFSEARTRFYGSEIILALGYLHHRNIVYRDMKLENLLDRDGH IKI TDFGLCKEEIKYGDKTSTFCGTPEYLAPEVIEDIDYDRSVD WWGVGVVMYEMMCGRLPFS AKENGKLFELITTCDLKFPNRLSPEAVTLLSGLLE RVP AKRLGAGPDDAREVSRAEFFKDVDWEATLRKEV EPPFKPNVMSETDTSFFDREFTSMPVQLTPPRRGEELPTVDEEEELQANFIQFASY YV SGSLERSYDTNRSADKYEIR.

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
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MO-AB-07442W	Monoclonal	Cat (<i>Felis catus</i>)	WB, ELISA	MO07442W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq: The length of the protein is 178 amino acids long.

The sequence is show below: EGISDGATMKTCGTPPEYLAEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERLFELILMEEIRFPRTL
LSPEAKSLLAGLLKKD PKQRLGGGSPDAREVMEHRFFLNVSQDVFQKLLPPFKPQVTSEVDTRYFDDEFTAQTITITPPDRYDSLDSHIELDQ
RTHFPQFSYS.

MO-AB-20765W	Monoclonal	Chimpanzee (<i>Pan troglodyte</i>)	WB, ELISA	MO20765W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq: The length of the protein is 481 amino acids long.

The sequence is show below: MNEVSVIKEGWLHKGREYIKTWPRYFLLKSDGSFIGYKERPEAPDQTLPLNNFSVAECQLMKTERPRPNTFVI
RCLQWTTVIERTFHV DSPDEREEWMRAIQMVANSLKQRAPGEDPMDYKCGSPSDSSAEEMEAVASKARAKVTMNDFDYLKLLGKGTFGKVIL
VREKATGRYYAM KILRKEVIIAKDEVAHTVTESRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTTEERARFYGAEIVSALEY
LHSRD VVYRDIKENLMLDKDGHKIDTDFGLCKEGISDGATMKTCGTPPEYLAEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERL
FE LILMEEIRFPRTLSPPEAKSLLAGLLKKDPKQRLGGGSPDAKEVMEHRFFLSINWQDVVQKLLPPFKPQVTSEVDTRYFDDEFTAQSITI TPPD
RYDSLGLLELDQRTTHFPQFSYSASIRE.

MO-AB-50677W	Monoclonal	Marmoset	WB, ELISA	MO50677W	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq: The length of the protein is 481 amino acids long.

The sequence is show below: MNEVSVIKEGWLHKGREYIKTWPRYFLLKSDGSFIGYKERPEAPDQTLPLNNFSVAECQLMKTERPRPNTFVI
RCLQWTTVIERTFHV DSPDEREEWMRAIQMVANSLKQRALGEDPMDYKCGSPSDSSVAEMEAVASKARAKVTMNDFDYLKLLGKGTFGKVIL
VREKATGRYYAM KILRKEVIIAKDEVAHTVTESRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTTEERARFYGAEIVSALEY
LHSRD VVYRDIKENLMLDKDGHKIDTDFGLCKEGISDGATMKTCGTPPEYLAEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKL
FE LILMEEIRFPRTLSPPEAKSLLAGLLKKDPKQRLGGGSPDAQEVMEHRFFLSINWQDVVQKLLPPFKPQVTSEVDTRYFDDEFTAQSITI TPPD
RYDSLGSLELDQRTTHFPQFSYSASIRE.

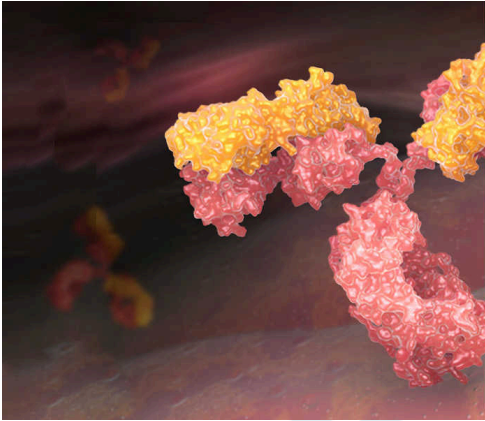
MO-AB-23667R	Monoclonal	Pig (<i>Sus scrofa</i>)	WB, ELISA	MO23667R	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg
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Protein Refseq: The length of the protein is 481 amino acids long.

The sequence is show below: MNEVSVIKEGWLHKGREYIKTWPRYFLLKSDGSFIGYKERPEAPDQTLPLNNFSVAECQLMKTERPRPNTFVI
RCLQWTTVIERTFHV DSPDEREEWMRAIQMVANSLKQRGAGEDPMDYKCGSPSDSSAAEMEAVASKARAKVTMNDFDYLKLLGKGTFGKVIL
VREKATGRYYAM KILRKEVIIAKDEVAHTVTESRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTTEERARFYGAEIVSALEY

Sub Cat	Clonalit y	Species Reactivity	Applicati on	Clone	Conjugate	Size
LHSRD VVYRDIKLENMLDKDGHIKITDFGLCKEGISDGATMKTCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERL FE LILMEEIRFPRTLSPEAKSLLAGLLKKDPKQRLGGGPSDAKEVMEHRFFLTVNWQDVVQKKLLPPFKPQVTSEVDTRYFDDEFTAQSITI TPPD RYDSLGSLELDQQRTHFPQFSYSASIRE.						
MO-AB-00105Y	Monoclonal	Chicken (<i>Gallus gallus</i>)	WB, ELISA	MO00105Y	Unconjugated; also available for Biotin; HRP; FITC and other labeled form.	100 µg

Protein Refseq: The length of the protein is 246 amino acids long. The sequence is show below: ELFFHLSRERVFTEERARFYGAEIVSALEYL
HSRDEVVYRDIKLENMLDKDGHIKITDFGLCKEGISDGATMKTCGTPEYLAPEVLEDN DYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERLF
ELILMEEIRFPRTLSPEAKALLAGLLKKDPKQRLGGGPTDAQEVMEHRFFAAINWQ DVVHRKXVPPFRPQVTSEIDTRYFDDEFTAQSITITPPDYL
DDVDALDGDQQRTHFPQFSYSASIRE.



AibGenesis™

is an advanced AI-driven platform designed to create novel antibody sequences with unprecedented speed and precision. By integrating deep learning, structure prediction, and comprehensive immunological datasets, **AibGenesis™** intelligently designs antibodies optimized for affinity, stability, and developability. The platform generates antibody products that support basic scientific research, drug development, and diagnostic applications.