

# AB-PK892

## VACAMKL-pY245 Antibody

Phosphosite-specific rabbit polyclonal antibody for VACAMKL. This phosphotyrosine-site antibody is highly specific for phosphotyrosine.

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### Target Protein

|                                |  |
|--------------------------------|--|
| <b>Protein Name Long:</b>      | CaM kinase-like vesicle-associated protein         |
| <b>Protein Alias:</b>          | CaM kinase-like vesicle-associated; CAMKV; MGC8407 |
| <b>UniProt ID:</b>             | Q8NCB2   |
| <b>Protein Molecular Mass:</b> | 54,354 Da (501 AA)                                 |

### Immunogen

|  |  |
|--|--|
| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human VACAMKL   |
| <b>Antibody Immunogen Sequence:</b>    | CAGD(pY)EFD  |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues A242 to D248. The effect of Y245 phosphorylation is unknown. Y245 phosphorylation has been observed in only a small number of mass spectrometry studies (~6 reports recorded in PhosphoSitePlus). The effect of its phosphorylation is unknown. However, it has homology with the Y25 phosphosite in CaMK1a. VACAMKL has been suggested to not have detectable phosphotransferase activity. . |
| <b>Antibody Target Type:</b>           | Phosphosite-specific   |

### Production

|                                |  |
|--------------------------------|--|
| <b>Antibody Host Species:</b>  | Rabbit   |
| <b>Antibody Type:</b>          | Polyclonal   |
| <b>Antibody Isotype:</b>       | IgG  |
| <b>Production Method:</b>      | The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| <b>Amount:</b>                 | 25 µg  |
| <b>Antibody Concentration:</b> | 1 mg/ml  |
| <b>Storage Buffer:</b>         | Phosphate buffered saline pH 7.4, 0.05% Thimerasol   |
| <b>Storage Conditions:</b>     | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.  |
| <b>Storage Stability:</b>      | >2 years   |

## Applications

|                                       |  |
|---------------------------------------|--|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray                                   |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting   |
| <b>Antibody Species Reactivity:</b>   | Human   Chimpanzee   Rhesus Macaque   Dog   Mouse   Frog   Nematode worm |

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987