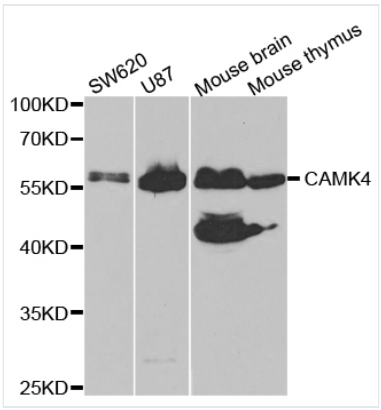
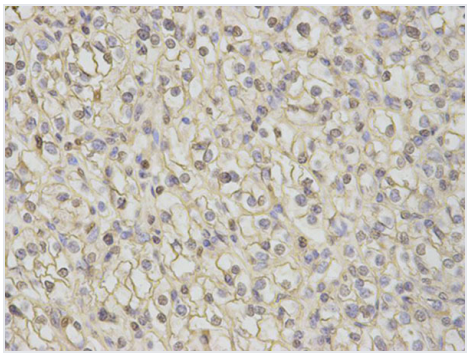
# CAMK4 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

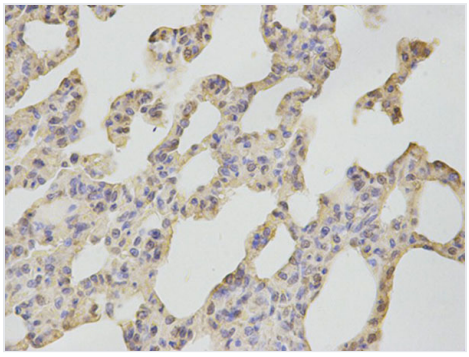
| | |
|---|---|
| **Product Name** | CAMK4, Polyclonal Antibody |
| **Full Product Name** | CAMK4 Antibody |
| **Product Gene Name** | anti-CAMK4 antibody |
| **Product Synonym Names** | IV; caMK; CaMKIV; CaMK-GR |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | Antibodies were purified by affinity purification using immunogen. |
| **Concentration** | 1.0 mg/ml (lot specific) |
| **Specificity** | The antibody detects endogenous level of total CAMK4 protein. |
| **Preparation and Storage** | Store at -20 degree C |
| **Molecular Weight** | 51,926 Da |
| **OMIM** | 114080 |
| **3D Structure** | ModBase 3D Structure for Q16566 |
| **Immunogen Type** | Recombinant Protein |
| **Immunogen Description** | Recombinant protein of human CAMK4. |
| **Target Name** | CAMK4 |
| **Product Categories/Family for anti-CAMK4 antibody** | Total protein Ab |
| **Applications Tested/Suitable for anti-CAMK4 antibody** | Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |
| **Application Notes for anti-CAMK4 antibody** | Western blotting: 1:500 - 1:2000<br>Immunohistochemistry: 1:50 - 1:200<br>Immunofluorescence: 1:50 - 1:200 |
| **Related Product Information for anti-CAMK4 antibody** | The product of this gene belongs to the serine/threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This enzyme is a multifunctional serine/threonine protein kinase with limited tissue distribution, that has been implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. |
| **Other Notes** | Small volumes of anti-CAMK4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CAMK4 purchase** | MBS9409202 is an antibody targeting CAMK4. Also known as CAMK4 Antibody. Reactive in Human. Host: Rabbit. |



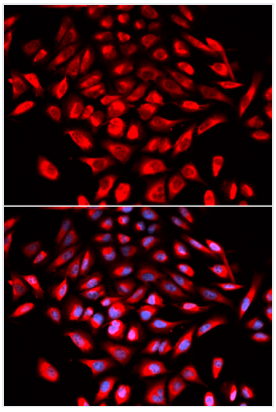

**Western Blot (WB) of anti-CAMK4 antibody**
Western blot analysis of extracts of various cell lines, using CAMK4 antibody.



**Immunohistochemistry (IHC) of anti-CAMK4 antibody**
Immunohistochemical analysis of paraffin-embedded human kidney cancer using CAMK4 antibody at dilution of 1:200 (400x lens).



**Immunohistochemistry (IHC) of anti-CAMK4 antibody**
Immunohistochemical analysis of paraffin-embedded rat lung using CAMK4 antibody at dilution of 1:200 (400x lens).



**Immunofluorescence (IF) of anti-CAMK4 antibody**
Immunofluorescence analysis of U2OS cell using CAMK4 antibody. Blue: DAPI for nuclear staining.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAMK4. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 4502557 |
| **NCBI GeneID** | 814 |
| **NCBI Accession #** | NP_001735.1 |
| **UniProt Primary Accession #** | Q16566 |
| **UniProt Secondary Accession #** | D3DSZ7 |
| **UniProt Related Accession #** | Q16566 |
| **GenBank Nucleotide #** | NM_001744.4 |
| **NCBI Official Full Name** | calcium/calmodulin-dependent protein kinase type IV |
| **NCBI Official Synonym Full Names** | calcium/calmodulin-dependent protein kinase IV |
| **NCBI Official Symbol** | CAMK4 |
| **NCBI Official Synonym Symbols** | IV; caMK; CaMK IV; CaMK-GR |
| **UniProt Protein Name** | Calcium/calmodulin-dependent protein kinase type IV |
| **UniProt Synonym Protein Names** | CaM kinase-GR |
| **Protein Family** | Calcium/calmodulin-dependent protein kinase |
| **UniProt Gene Name** | CAMK4 |

| | |
|---|---|
| **UniProt Synonym Gene Names** | CAMK; CAMK-GR; CAMKIV; CaMK IV |
| **UniProt Entry Name** | KCC4_HUMAN |
| **NCBI Protein Information** | calcium/calmodulin-dependent protein kinase type IV |
| **UniProt Comments for CAMK4** | CAMK4: a protein kinase of the CAMK1 family. Implicated in transcriptional regulation in lymphocytes, neurons and male germ cells. Two alternatively sliced isoforms have been described.<br><br>Protein type: EC 2.7.11.17; Protein kinase, CAMK; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); CAMK group; CAMK1 family<br><br>Chromosomal Location of Human Ortholog: 5q21.3<br><br>Cellular Component: nucleoplasm; nucleolus; cytosol<br><br>Molecular Function: calmodulin binding; calmodulin-dependent protein kinase activity; ATP binding<br><br>Biological Process: epidermal growth factor receptor signaling pathway; mitochondrion organization and biogenesis; fibroblast growth factor receptor signaling pathway; nerve growth factor receptor signaling pathway; regulation of T cell differentiation in the thymus; organelle organization and biogenesis; positive regulation of transcription, DNA-dependent; nucleocytoplasmic transport; myeloid dendritic cell differentiation; signal transduction; protein amino acid phosphorylation; positive regulation of protein export from nucleus; synaptic transmission; regulation of osteoclast differentiation; long-term memory; phospholipase C activation; innate immune response; nerve-nerve synaptic transmission; inflammatory response; myeloid dendritic cell cytokine production |
| **Research Articles on CAMK4** | **1.** Expression of CaMKIV inhibits autophosphorylation and activation of CaMKII, and elicits G0/G1cell cycle arrest,impairing cell proliferation. |
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