

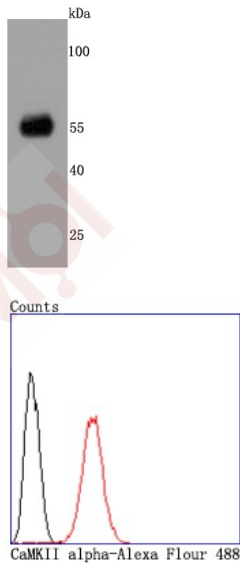
Anti-CAMKII alpha Antibody (4A308)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 54 kDa.
Clone:	4A308
Purification:	ProA affinity purified

Applications

- Verified Activity:
1. Western blot analysis of CaMKII alpha on rat brain cells lysates using anti-CaMKII alpha antibody at 1/500 dilution.
 2. Flow cytometric analysis of SH-SY5Y cells with CaMKII alpha antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the _x0018_secondary antibody.



Application:	FCM,IP,WB
Recommended	WB: 1:1000-2000; IP: 1:10-50; FCM: 1:50-100

Properties

- Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
- Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q9UQM7 CAMKB;CaM kinase II delta chain;CaM kinase II alpha subunit;CaM kinase II subunit alpha; CaMKII alpha;CaMK II delta subunit;CaM kinase II beta chain;CaMK-II subunit alpha;KCC2A; R74975;EC 2.7.11.17;zgc:123320;MGC155201;zgc:112538;KIAA0968;CaMK II beta subunit; Calcium/Calmodulin Dependent Protein Kinase II G;Calcium/calmodulin-dependent protein kinase type IIA;Calcium/calmodulin-dependent protein kinase(CaM kinase) II alpha;CAM2;
Synonyms:	MGC123320;Calcium/calmodulin-dependent protein kinase type II subunit alpha;CaMK II alpha subunit;MGC139375;CAMK2D;CaM kinase II delta subunit;CaM kinase II beta subunit;CaMKII; CaM kinase II alpha chain;alpha CaMKII;Calcium calmodulin dependent protein kinase II; Calcium/calmodulin dependent protein kinase II alpha;CAMKA;Calcium calmodulin dependent protein kinase II alpha-B subunit;Calcium calmodulin dependent protein kinase CaM kinase II alpha;CAMK2A;PK2CDD;mKIAA0968

Research Background

The Ca²⁺/calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/threonine protein kinase that is activated by Ca²⁺ and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes designated α , β , γ and δ , which may or may not be co-expressed in the same tissue type. CaMKIV is stimulated by Ca²⁺ and CaM but also requires phosphorylation by a CaMK for full activation. Stimulation of the T cell receptor CD3 signaling complex with an CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory Threonine residue at position 177.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481