

AM00025PU-N**Monoclonal Antibody to Casein kinase I epsilon (incl. pos. control) - Purified**

Alternate names:	CKI-epsilon, CKIe, CSNK1E
Quantity:	0.1 mg
Concentration:	n/a
Background:	Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can also phosphorylate a large number of proteins and participates in Wnt signaling.
Uniprot ID:	P49674
NCBI:	NP_001885.1
GeneID:	102800317
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N
Clone:	4D7
Immunogen:	Peptide (aa 355 - 380 of CK1e) conjugated to hemocyanin
Format:	State: Lyophilized purified IgG fraction Purification: Purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography. Buffer System: 1ml 2xPBS containing 0.09% Sodium Azide, PEG and Sucrose Reconstitution: Reconstitute with 1 ml H ₂ O (15 min, RT)
Applications:	ELISA: 0.1 µg/ml. Western blot: Use at 0.5 µg/ml for HRPO/ECL detection. Detects a band at 45kD. <u>Recommended blocking buffer:</u> Casein/Tween 20 based blocking and blot incubation buffer. <u>Included Positive Control:</u> Cell lysate from Untreated A431 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Mab CK1e-4D7 specifically recognizes the epsilon isoform of CK1. Species: Human, Mouse, Rat, Dog. Other species not tested.
Add. Information:	The lyophilized cell lysates (see below) contain SDS and are not recommended for applications with native proteins such as Immunoprecipitation.
Storage:	Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months. Shelf life: one year from despatch.

Protocols:

Positive Control: Cell lysate from Untreated A431 cells.

Format: Lyophilized cell lysate from Serum starved A431 cells

Reconstitution: Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl

2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

Application: The positive control cell lysate is recommended for immunoblot applications.

20 µl of positive control cell lysate correspond to ca. 20.000 cells.

Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Please NOTE: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

Pictures:

Detection of endogenous Casein Kinase 1 epsilon: Whole cell lysates of serum starved tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab CK1e-4D7 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec)
lane 1: HeLa; lane 2: HepG2; lane 3: HEK293; lane 4: SH-SY5Y; lane 5: MDCK; lane 6: PC12; lane 7: CMT 93; lane 8: Neuro 2A; lane 9: NIH 3T3.

