

## MNAT1 (E123) polyclonal antibody

Catalog: BCP01108

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

Progression through the cell cycle requires activation of a series of enzymes designated cyclin dependent kinases (Cdks). The monomeric catalytic subunit, Cdk2, a critical enzyme for initiation of cell cycle progression, is completely inactive. Partial activation is achieved by the binding of regulatory cyclins such as cyclin D1, while full activation requires phosphorylation at Thr 160. The enzyme responsible for phosphorylation of Thr 160 in Cdk2 and also Thr 161 in Cdc2 p34, designated Cdk-activating kinase (CAK), has been partially purified and shown to be comprised of a catalytic subunit, a regulatory subunit and a subunit of unknown function. The regulatory subunit is a novel cyclin (cyclin H) and is required for activation of Cdk7. This previously undescribed protein, now termed Mat1 p36, has been cloned as a protein that associates with the cyclin H/Cdk7 nuclear complex at all stages of the cell cycle. Cyclin H/Cdk7/Mat1 p36 complexes display kinase activity towards Cdk activation domains, and the carboxy terminus of RNA polymerase II. Mat1 p36 appears to constitute the first example of an assembly factor, essential for the formation of an active Cdk/cyclin complex.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 36 kDa

### Swiss-Prot:

P51948

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum

by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

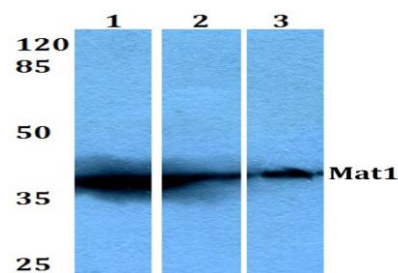
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

MNAT1 (E123) polyclonal antibody detects endogenous levels of MNAT1 protein.

### DATA:



Western blot (WB) analysis of Mat1 (E123) pAb at 1:500 dilution

Lane1:PC3 whole cell lysate(40ug)

Lane2:HCT116 whole cell lysate(40ug)

Lane3:SK-OVCAR3 whole cell lysate(40ug)

Lane4:CT26 whole cell lysate(40ug)

Lane5:C6 whole cell lysate(40ug)

### Note:

For research use only, not for use in diagnostic procedure.