

## NDR1/2 (Phospho Thr444/442) Rabbit pAb

CatalogNo: YP1749 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 51kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

WB 1:500-2000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized peptide derived from human NDR1/2 (Phospho-Thr444/442)

**Specificity** This antibody detects endogenous levels of STK38 only when phosphorylated at Human:T444/442, Mouse:T444/442..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):NYtYK

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## | Target Information

**Gene name** STK38 NDR1

**Protein Name** NDR1/2 (Phospho-Thr444/442)

Organism	Gene ID	UniProt ID
Human	<a href="#">11329</a> ;	<a href="#">Q15208</a> ;
Mouse	<a href="#">106504</a> ;	<a href="#">Q91VJ4</a> ;

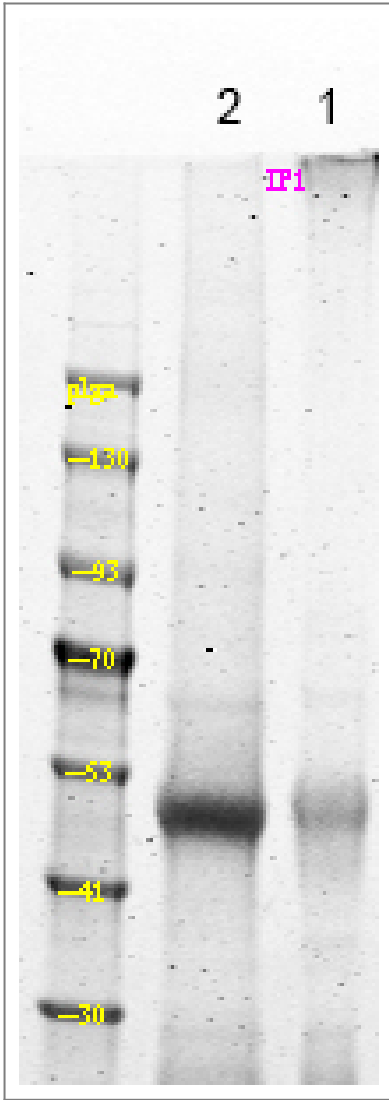
**Cellular Localization** Nucleus. Cytoplasm.

**Tissue specificity** Ubiquitously expressed with highest levels observed in peripheral blood leukocytes.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,enzyme regulation:Activated by binding of S100B which releases autoinhibitory N-lobe interactions , enabling ATP to bind and the autophosphorylation of Ser-281. Thr-444 then undergoes calcium-dependent phosphorylation by an upstream kinase. Interactions between phosphorylated Thr-444 and the N-lobe promote additional structural changes that complete the activation of the kinase. Autoinhibition is also released by the binding of MOB1/MOBKL1A and MOB2/HCCA2 to the N-terminal of STK38. ,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. ,similarity:Contains 1 AGC-kinase C-terminal domain. ,similarity:Contains 1 protein kinase domain. ,subcellular location:Low levels present in the cytoplasm. ,subunit:Homodimeric S100B binds two molecules of STK38. Interacts with MOB1 and MOB2. ,tissue specificity:Ubiquitously expressed with highest levels observed in peripheral blood leukocytes. ,

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## | Validation Data



Western Blot analysis of 1 MCF-7 cell 2 LPS 100ng/mL 30min treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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