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**Product Name: NDR2 Rabbit Polyclonal Antibody****Catalog #: APRab14474**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:50-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	54kDa

**Antigen Information**

<b>Gene Name</b>	STK38L
<b>Alternative Names</b>	STK38L; KIAA0965; NDR2; Serine/threonine-protein kinase 38-like; NDR2 protein kinase; Nuclear Dbf2-related kinase 2
<b>Gene ID</b>	23012.0
<b>SwissProt ID</b>	Q9Y2H1
<b>Immunogen</b>	Synthesized peptide derived from NDR2 . at AA range: 380-460

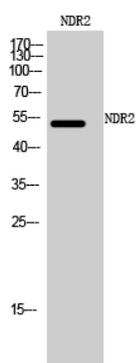
**Background**

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-282. Thr-442 then undergoes calcium-dependent phosphorylation by an upstream kinase. Interactions between phosphorylated Thr-442 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 STK38L, function: Involved in the regulation of structural processes in differentiating and mature neuronal cells, PTM: Phosphorylated upon DNA damage, probably by ATM or ATR, 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: Associated with the actin cytoskeleton, subunit: Homodimeric S100B binds two molecules of STK38L (By similarity). Interacts with MOB1 and MOB2, tissue specificity: Ubiquitously expressed with highest levels observed in the thymus, catalytic activity:  $\text{ATP} + \text{a protein} = \text{ADP} + \text{a phosphoprotein}$ , cofactor: Magnesium, enzyme regulation: Activated by binding of S100B which releases autoinhibitory N-lobe interactions, enabling ATP to bind and the autophosphorylation of Ser-282. Thr-442 then undergoes calcium-dependent phosphorylation by an upstream kinase. Interactions between phosphorylated Thr-442 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 STK38L, function: Involved in the regulation of structural processes in differentiating and mature neuronal cells, PTM: Phosphorylated upon DNA damage, probably by ATM or ATR, 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: Associated with the actin cytoskeleton, subunit: Homodimeric S100B binds two molecules of STK38L (By similarity). Interacts with MOB1 and MOB2, tissue specificity: Ubiquitously expressed with highest levels observed in the thymus,

## Research Area

## Image Data



Western Blot analysis of mouse cells using NDR2 Polyclonal Antibody