

**bs-5732R****[ Primary Antibody ]****NEK2 Rabbit pAb****Bioss**  
**ANTIBODIES**

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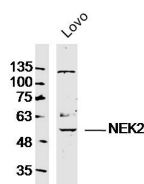
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**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 4751 <b>Target:</b> NEK2 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human NEK2: 1-100/445. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> Protein kinase that is involved in mitotic regulation. Integral component of the mitotic spindle-assembly checkpoint which is necessary for proper chromosome segregation during metaphase-anaphase transition. Required for association of MAD2L1 to kinetochore. Phosphorylates SGOL1. May have a role at the G2-M transition. May also play a role in meiosis. Isoform 1 but not isoform 2 appears to play a role in centrosome splitting. Isoform 1 phosphorylates and activates NEK11 in G1/S-arrested cells. Isoform 2, which is not present in the nucleolus, does not.	<b>Isotype:</b> IgG  <b>SWISS:</b> P51955	<b>Applications:</b> WB (1:500-2000)  <b>Reactivity:</b> Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Dog, Horse)  <b>Predicted MW.:</b> 52 kDa  <b>Subcellular Location:</b> Cytoplasm ,Nucleus
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**— VALIDATION IMAGES —**

Sample:Lovo Cell (Human) Lysate at 40 ug  
 Primary: Anti-NEK2(bs-5732R)at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 52kD  
 Observed band size: 52kD

**— SELECTED CITATIONS —**

- **[IF=8.378]** Roberts MS et al. LIN9 and NEK2 are core regulators of mitotic fidelity that can be therapeutically targeted to overcome taxane resistance. Cancer Res. 2020 Feb 13. WB ;Human. 32054769
- **[IF=2.52]** Zhong, Xinwen, et al. "Examining Nek2 as a better proliferation marker in non-small cell lung cancer prognosis." Tumor Biology (2014): 1-8. IHC ;="Human". 24763826
- **[IF=0.99]** Zhong, Xinwen, et al. "Aberrant expression of NEK2 and its clinical significance in non-small cell lung cancer." Oncology Letters. IHC ;="Human". 25202351
- **[IF=1.41]** Zeng, Yan-Ru, et al. "Overexpression of NIMA-related kinase 2 is associated with progression and poor prognosis of prostate cancer." BMC Urology 15.1 (2015): 90. WB ;="Human". 26320076