

# Product Datasheet

## CKIP-1 Antibody - BSA Free

### NBP1-76238

Unit Size: 0.1 mg

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

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**NBP1-76238**

CKIP-1 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

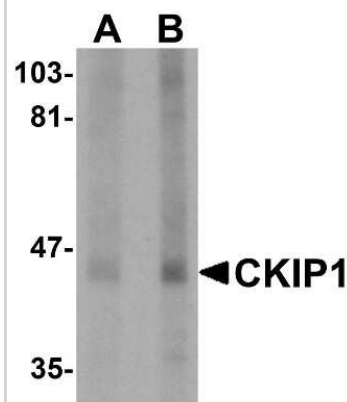
Product Description	
Host	Rabbit
Gene ID	51177
Gene Symbol	PLEKHO1
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (89%)
Immunogen	Antibody was raised against an 18 amino acid synthetic peptide from near the carboxy terminus of human CKIP1. The immunogen is located within the last 50 amino acids of CKIP1. Amino Acid Sequence: TPDSHLRQTTPHSQYKKS

Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000



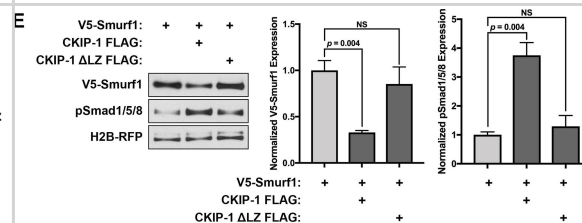
## Images

Western Blot: CKIP-1 Antibody [NBP1-76238] - Human lung tissue lysate with CKIP1 antibody at (A) 1 and (B) 2 ug/mL.



Western Blot: CKIP-1 Antibody - BSA Free [NBP1-76238] - CKIP-1 directly interacts with Smurf1 to promote Smurf1 degradation. DF-1 chicken fibroblasts were transfected with the indicated constructs & then immunostained using anti-FLAG & anti-V5 antibodies. (A) Localization of FLAG-tagged CKIP-1 & V5-tagged Smurf1 alone. (B) Schematics for CKIP-1 FLAG constructs highlighting the membrane-binding PH domain (red) & Smurf1-binding LZ (blue) followed by a C-terminal FLAG tag (yellow). (C) Full-length CKIP-1 FLAG was cotransfected with full-length V5-Smurf1 or V5-Smurf1 C700A dominant-negative mutant. In addition, CKIP-1 FLAG truncation mutants were cotransfected with full-length V5-Smurf1, showing that the PH domain is required for efficient membrane localization, & the LZ domain is required for Smurf1 colocalization.

Arrows indicate membrane localization. Scale bars represent 10  $\mu$ m. (D) Chick embryos were electroporated at HH4 with V5-Smurf1 & CKIP-1 FLAG & then stained for V5 or FLAG at HH8 & imaged in cryosection. Scale bars represent 25  $\mu$ m. (E) Western blot analysis of HH7 whole-embryo lysates electroporated with constructs indicated & probed for V5, pSmad1/5/8, & RFP. Bar graphs represent normalized V5 & pSmad1/5/8 staining intensity means  $\pm$  SEM from 3 replicates. Underlying data can be found in S1 Data. P values from two-tailed Student t test. CKIP-1, casein kinase interacting protein 1; HH, Hamburger-Hamilton stage; LZ, leucine zipper motif; NC; neural crest domain; NS, not significant; PH, pleckstrin homology; pSmad1/5/8, phospho-Smads 1/5/8; RFP, red fluorescent protein; Smurf1, Smad ubiquitin regulatory factor 1. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/29949573>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Piacentino M. L. , Bronner M. E. Intracellular attenuation of BMP signaling via CKIP-1/Smurf1 is essential during neural crest induction. PLoS Biol 2018-06-01 [PMID: 29949573] (WB, Chicken)



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### **Products Related to NBP1-76238**

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NBP1-76238PEP	CKIP-1 Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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