

# Product Datasheet

## EPB41L3 Antibody - BSA Free NB110-61027

Unit Size: 0.1 ml

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

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**NB110-61027**

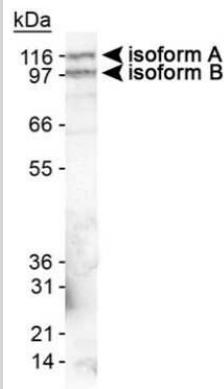
EPB41L3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.15 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Product Description	
Host	Rabbit
Gene ID	23136
Gene Symbol	EPB41L3
Species	Human, Mouse, Rat, Primate, Xenopus
Immunogen	A synthetic peptide made to an internal region of human EPB41L3 (within residues 400-500). [Swiss-Prot# Q9Y2J2]
Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:50
Application Notes	<p>This EPB41L3 antibody is useful for Western blot, where bands are seen at ~120 and 96 kDa. It detects both isoforms A and B in mouse brain lysates. It detects human isoform A strongly and isoform B more weakly.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 139 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p>

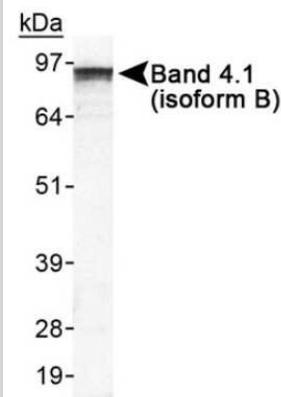


## Images

Western Blot: EPB41L3 Antibody [NB110-61027] - Detection of Band 4.1-like protein 3 in mouse brain lysate



Western Blot: EPB41L3 Antibody [NB110-61027] - Detection of Band 4.1-like protein 3 in HeLa whole cell lysate



Simple Western: EPB41L3 Antibody [NB110-61027] - Simple Western lane view shows a specific band for EPB41L3 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Wong, SY et al. Protein 4.1B suppresses prostate cancer progression and metastasis. *Proc Natl Acad Sci U S A.* 104(31):12784-9. 2007-07-31 [PMID: 17640904] (WB, Human)

McCarty, JH et al. An interaction between  $\alpha_v\beta_8$  integrin and Band 4.1B via a highly conserved region of the Band 4.1 C-terminal domain. *Proc Natl Acad Sci U S A.* 102(38):13479-83. 2005-09-20 [PMID: 16157875] (WB, Primate)

## Procedures

### Western Blot protocol for EPB41L3 Antibody (NB110-61027)

EPB41L3 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 38 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFD<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Band 4.1 like-protein 3 primary antibody (NB 110-61027) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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### **Products Related to NB110-61027**

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NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
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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