

## EPB 41L2 / 4.1G

Cat.No. 276 202; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 µl antiserum, lyophilized. For reconstitution add 200 µl H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) <b>IP:</b> yes <b>ICC:</b> 1 : 500 <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 27 to 147 from mouse 4.1G (UniProt Id: O70318)
Reactivity	Reacts with: rat, mouse (P48193). Other species not tested yet.
Specificity	Specific for EPB 41L2/4.1G.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The protein 4.1 family consists of a group of skeletal proteins related to the red blood cell (RBC) protein **4.1R**, also known as the erythrocyte membrane skeletal band 4.1 protein EPB 41. This protein family also includes **4.1N** (EPB 4), 4.1B and **4.1G** (EPB 4.1L2).

4.1N and 4.1G are expressed in neuronal and non-neuronal cells in the brain. For 4.1N several splice variants with tissue specific expression patterns have been described. The 135 kDa isoform is most prominent in brain whereas a smaller 100 kDa variant is enriched in peripheral tissues

### Selected General References

The membrane-cytoskeletal protein 4.1N is involved in the process of cell adhesion, migration and invasion of breast cancer cells.

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The function of glutamatergic synapses is not perturbed by severe knockdown of 4.1N and 4.1G expression.  
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Band 4.1 proteins are expressed in the retina and interact with both isoforms of the metabotropic glutamate receptor type 8.  
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Differential neuronal and glial expression of GluR1 AMPA receptor subunit and the scaffolding proteins SAP97 and 4.1N during rat cerebellar development.

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