

# GABRP antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI16206

## Product Information

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|-------------------|-------------------------------------------------------|
| Application       | WB                                                    |
| Primary Accession | <a href="#">O00591</a>                                |
| Other Accession   | <a href="#">NM_014211</a> , <a href="#">NP_055026</a> |
| Reactivity        | Human, Mouse, Rat, Rabbit, Dog, Horse                 |
| Predicted         | Human, Mouse, Rat, Rabbit, Dog, Horse                 |
| Host              | Rabbit                                                |
| Clonality         | Polyclonal                                            |
| Calculated MW     | 50640                                                 |

## Additional Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 2568                                                                                                                                                                                            |
| Other Names              | Gamma-aminobutyric acid receptor subunit pi, GABA(A) receptor subunit pi, GABRP                                                                                                                 |
| Format                   | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                               |
| Reconstitution & Storage | Add 100 ul of distilled water. Final anti-GABRP antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles. |
| Precautions              | GABRP antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.                                                                            |

## Protein Information

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| Name     | GABRP ( <a href="#">HGNC:4089</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function | Pi subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA) (PubMed: <a href="#">10462548</a> ). GABA-gated chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits arranged around a central pore and contain GABA active binding site(s) located at the alpha and beta subunit interfaces (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed: <a href="#">10462548</a> ). Pi-containing GABAARs are mostly located in peripheral tissues. In the uterus, pi subunits modulate uterus contraction by altering the sensitivity of GABAARs to pregnanolone (PubMed: <a href="#">9182563</a> ). In the lungs, pi-containing GABAARs contribute to pulmonary fluid transport via luminal |

secretion of chloride (By similarity).

## Cellular Location

Cell membrane; Multi-pass membrane protein. Apical cell membrane {ECO:0000250|UniProtKB:O09028}; Multi-pass membrane protein. Note=Located on the apical plasma membrane of alveolar epithelial type II cells {ECO:0000250|UniProtKB:O09028}

## Tissue Location

Most abundant in non-neuronal tissues including the uterus, ovaries and also expressed in lung, thymus and prostate (PubMed:10462548, PubMed:9182563). Expressed in the hippocampus (PubMed:10462548).

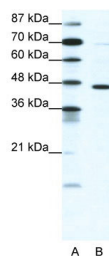
## Background

GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel. In the uterus, the function of the receptor appears to be related to tissue contractility. The binding of this pI subunit with other GABA(A) receptor subunits alters the sensitivity of recombinant receptors to modulatory agents such as pregnanolone.

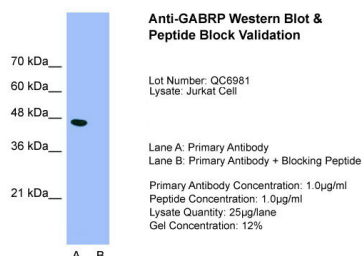
## References

Hedblom E.,et al.J. Biol. Chem. 272:15346-15350(1997).  
Johnson E.K.,et al.Submitted (JUN-1997) to the EMBL/GenBank/DDBJ databases.  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Sjoebloom T.,et al.Science 314:268-274(2006).

## Images



WB Suggested Anti-GABRP Antibody Titration: 1.25 µg/ml  
Positive Control: HepG2/Jurkat



Host: Rabbit  
Target Name: GABRP  
Sample Tissue: Jurkat  
Lane A: Primary Antibody  
Lane B: Primary Antibody + Blocking Peptide  
Primary Antibody  
Concentration: 1.0 µg/ml  
Peptide Concentration: 1.0 µg/ml  
Lysate Quantity: 25 µg/lane  
Gel Concentration: 12%

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.