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Anti-GABRD Antibody

Rabbit polyclonal antibody to GABRD
Catalog # AP60763

Specification

Anti-GABRD Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O14764
Other Accession	P22933
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**50708**

Anti-GABRD Antibody - Additional Information

Gene ID 2563

Other Names
Gamma-aminobutyric acid receptor subunit delta; GABA(A) receptor subunit delta

Target/Specificity
Recognizes endogenous levels of GABRD protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-GABRD Antibody - Protein Information

Name GABRD (HGNC:4084)

Function
Delta subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed:35355020). 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 interface(s) (PubMed:35355020). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:<a

href="http://www.uniprot.org/citations/35355020" target="_blank">35355020). GABAARs containing delta/GABRD subunits are predominantly located in extrasynaptic or perisynaptic positions on hippocampus and cerebellar granule cells, and contribute to the tonic GABAergic inhibition (By similarity). GABAAR containing alpha-4-beta-3-delta subunits can simultaneously bind GABA and histamine where histamine binds at the interface of two neighboring beta subunits, which may be involved in the regulation of sleep and wakefulness (PubMed:35355020).

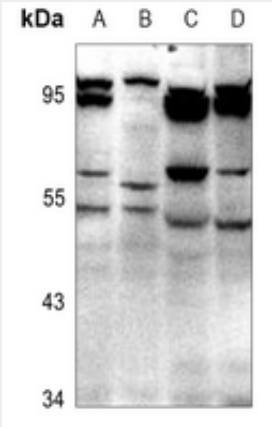
Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P18506}; Multi-pass membrane protein

Anti-GABRD Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GABRD Antibody - Images



Western blot analysis of GABRD expression in SGC7901 (A), HepG2 (B), BV2 (C), PC12 (D) whole cell lysates.

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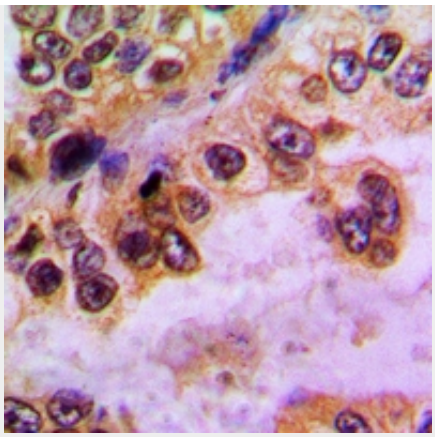

Immunohistochemical analysis of GABRD staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-GABRD Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GABRD. The exact sequence is proprietary.