10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Alanine Racemase Antibody
Rabbit Polyclonal Antibody
Catalog # ABV12111

Specification

Anti-Alanine Racemase Antibody - Product Information

Application	**WB**
Primary Accession	P10724
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

Anti-Alanine Racemase Antibody - Additional Information

Positive Control	**Western blot**
Application & Usage	**Western blot: 1-4 µg**

Other Names
Alanine Racemase Y354N, alr, dal

Target/Specificity
Alanine Racemase

Antibody Form
Liquid

Appearance
Colorless liquid

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Anti-Alanine Racemase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Alanine Racemase Antibody - Protein Information

Name alr

Synonyms dal

Function
Catalyzes the interconversion of L-alanine and D-alanine. Also weakly active on serine.

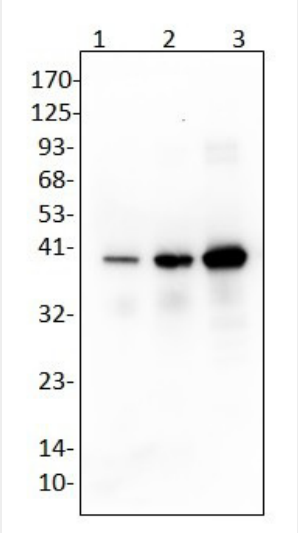
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Alanine Racemase 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-Alanine Racemase Antibody - Images



Western blot analysis of Alanine Racemase antibody in: Lane 1: Alanine Racemase 2 ng Lane 2: Alanine Racemase 10 ng Lane 3: Alanine Racemase 50 ng

Anti-Alanine Racemase Antibody - Background

Mutant Alanine Racemase (Y354N) (mAR-Y354N), a pyridoxal 5- phosphate (PLP) dependent enzyme catalyzes the interconversion of the L-Serine to D-Serine. In WT Alanine Racemase Tyr354 plays a crucial role in defining the strict specificity of AR for alanine, in converting L-Alanine to D-Alanine, which is an important component of the peptidoglycan layer of bacterial cell wall. By mutating the active site Tyr 354 to Asn, the specificity of the enzyme changes and it becomes a racemase with dual specificity for L- Alanine and L-Serine.