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Product datasheet for AP05110PU-N

Farnesyl Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF
Recommended Dilution:	**ELISA:** Detects farnesyl motif derived from isoprenylated C-A-A-X sequence. Also cross-reacts with geranylgeranyl motif. Detects KLH as well. **Immunofluorescence**
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Antibody developed using Farnesyl cysteine conjugated to KLH.
Specificity:	This antibody recognizes Farnesyl.
Formulation:	Phosphate buffered saline with 0.08% Sodium Azide State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Ammonium Sulfate Precipitation
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.

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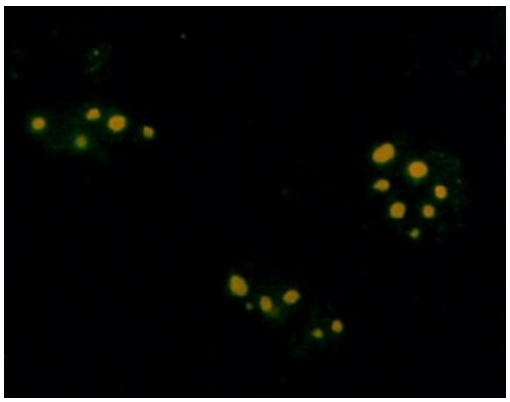
Background:

Protein isoprenylation is a post-translational modification that affects about 0.5% of cellular proteins and is essential for the biological activity of proteins. Two enzymes catalyze the attachment of two prenyl groups to the sulfhydryl group of carboxyl-terminal cysteine groups. Proteins which are prenylated by these enzymes have a distinct motif at the C-terminal of the protein, C-A1-A2-X (C = Cysteine, A 1 & A2 = aliphatic amino acids). The two enzymes involved in this transfer are farnesyltransferase and geranylgeranyltransferase. These transfer a 15 carbon farnesyl or a 20 carbon geranygeranyl, respectively, from a prenyl-pyrophosphate to the protein. Examples of proteins containing this C-A-A-X motif are members of the Ras small G protein family, the nuclear lamins and the gamma subunit of trimeric G proteins. Prenylation of proteins is necessary for membrane association of proteins as well as protein-protein interactions and the nature of the linked isoprenyl group can influence the protein interactions, such as the interaction between G proteins and receptors.

Product images:



Immunofluorescence assay using anti-Farnesyl antibody on plasmids encoding isoprenylated protein and visualized using FITC-conjugated goat anti-rabbit antibody.