ARG45212
anti-DPH5 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DPH5
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	DPH5
Species	Human
Immunogen	Recombinant protein containing to human DPH5.
Conjugation	Un-conjugated
Alternate Names	DPH5; Diphthamide Biosynthesis 5; Diphthine Methyl Ester Synthase; CGI-30; Diphthamide Biosynthesis Methyltransferase; DPH5 Homolog (S. Cerevisiae); Diphthine Synthase; Protein X 0011; DPH5 Homolog; EC 2.1.1.314; EC 2.1.1.98; HSPC143; AD-018; NEDSFF; NPD015

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
WB	0.25-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	37 kDa

Properties

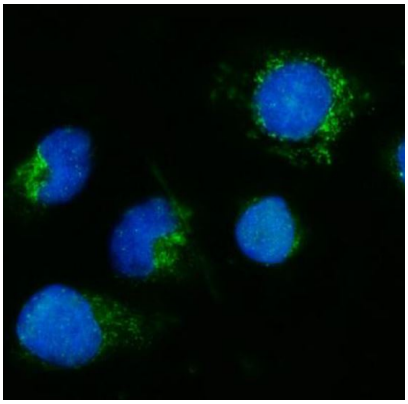
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

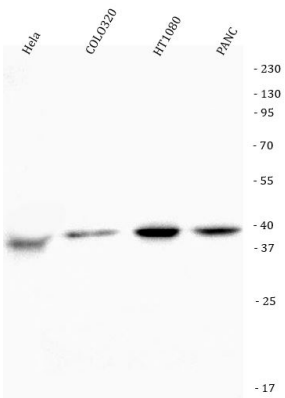
Gene Symbol	DPH5
Gene Full Name	Diphthamide Biosynthesis 5
Background	Diphthine synthase is an enzyme that in humans is encoded by the DPH5 gene. This gene encodes a component of the diphthamide synthesis pathway. Diphthamide is a post-translationally modified histidine residue found only on translation elongation factor 2. It is conserved from archaebacteria to humans, and is targeted by diphtheria toxin and Pseudomonas exotoxin A to halt cellular protein synthesis. The yeast and Chinese hamster homologs of this protein catalyze the trimethylation of the histidine residue on elongation factor 2, resulting in a diphthine moiety that is subsequently amidated to yield diphthamide. Multiple transcript variants encoding different isoforms have been found for this gene.
Function	S-adenosyl-L-methionine-dependent methyltransferase that catalyzes four methylations of the modified target histidine residue in translation elongation factor 2 (EF-2), to form an intermediate called diphthine methyl ester. The four successive methylation reactions represent the second step of diphthamide biosynthesis.. [UniProt]
Calculated Mw	31 kDa
PTM	Phosphoprotein. [UniProt]
Cellular Localization	cytosol. [UniProt]

Images



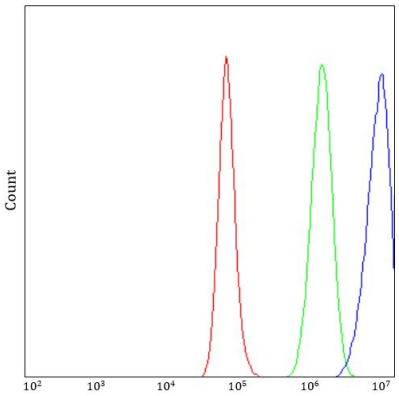
ARG45212 anti-DPH5 antibody ICC/IF image

Immunofluorescence: U20S stained with ARG45212 anti-DPH5 antibody at 5 ug/ml dilution.



ARG45212 anti-DPH5 antibody WB image

Western blot: 293T, HepG2, K562, and Daudi stained with ARG45212 anti-DPH5 antibody at 0.5 µg/ml dilution.



ARG45212 anti-DPH5 antibody FACS image

Flow Cytometry: A549 stained with ARG45212 anti-DPH5 antibody at 1 µg/10^6 cells dilution.