

ARG44653 anti-Dynamin antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes Dynamin
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, IP
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	Dynamin
Species	Human
Conjugation	Un-conjugated
Alternate Names	DNM1; Dynamin 1; DNM; EC 3.6.5.5; Dynamin-1; Dynamin I; Dynamin; DEE31A; DEE31B; EIEE31; DEE31

Application Instructions

Application table	Application	Dilution
	IHC-P	5 µg/mL
	IP	10 µg/mL

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

Properties

Form	Liquid
Purification	Protein A purification
Buffer	PBS with 0.09% sodium azide
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	Dynamin 1
Gene Full Name	DNM1
Background	This gene encodes a member of the dynamin subfamily of GTP-binding proteins. The encoded protein

possesses unique mechanochemical properties used to tubulate and sever membranes, and is involved in clathrin-mediated endocytosis and other vesicular trafficking processes. Actin and other cytoskeletal proteins act as binding partners for the encoded protein, which can also self-assemble leading to stimulation of GTPase activity. More than sixty highly conserved copies of the 3' region of this gene are found elsewhere in the genome, particularly on chromosomes Y and 15. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Function

Catalyzes the hydrolysis of GTP and utilizes this energy to mediate vesicle scission and participates in many forms of endocytosis, such as clathrin-mediated endocytosis or synaptic vesicle endocytosis as well as rapid endocytosis (RE).

Through its interaction with DNAJC6, acts during the early steps of clathrin-coated vesicle (CCV) formation. [UniProt]

Calculated Mw

97 kDa

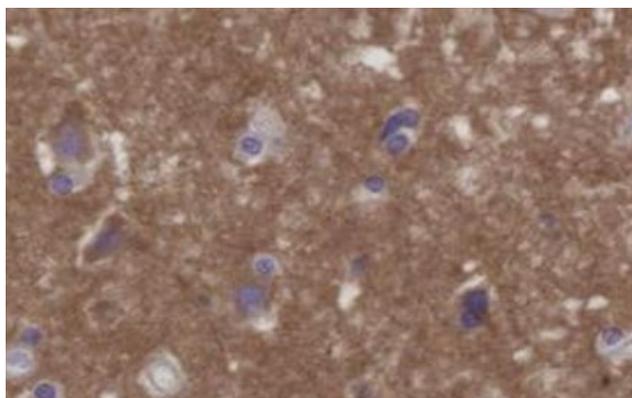
PTM

Methylation, Nitration, Phosphoprotein. [UniProt]

Cellular Localization

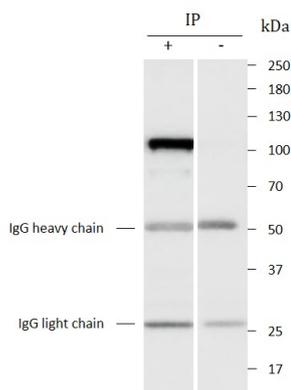
Cell membrane, Cell projection, Coated pit, Cytoplasmic vesicle, Membrane, Microtubule, Synapse. [UniProt]

Images



ARG44653 anti-Dynamin antibody IHC-P image

Immunohistochemistry: Human Brain stained with ARG44653 anti-Dynamin antibody at 5 µg/mL dilution.



ARG44653 anti-Dynamin antibody IP image

Immunoprecipitation: Mouse Brain lysate immunoprecipitated with 2.5 µg of ARG44653 anti-Dynamin antibody.