ARG22592
anti-WIPI2 antibody [2A2]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [2A2] recognizes WIPI2 This antibody recognizes WD repeat domain phosphoinositide-interacting protein 2 (WIPI-2), also known as WIPI49-like protein 2. WIPI2 is a 454 amino acid ~54kDa autophagosomal marker containing three WD repeats. WIPI2 a mammalian orthologue of the yeast protein Atg18 and is similarly recruited to early autophagosomal structures and is required for their maturation into mature autophagosomes (Polson et al. 2010).Mouse anti Human WIPI2 antibody, clone 2A2 has been used for the immunofluorescent detection of WIPI2 in the human retinal epithelial cell line RPE1 (MacVicar and Lane 2014).
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Mouse
Clonality	Monoclonal
Clone	2A2
Isotype	IgG1
Target Name	WIPI2
Species	Human
Immunogen	Synthetic peptide corresponding to the C-terminus of WIPI2b (CSALRLDEDSEHPPMILRTD)
Conjugation	Un-conjugated
Alternate Names	WD repeat domain phosphoinositide-interacting protein 2; WIPI-2; 2510001I10Rik; 1110018O08Rik

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
IHC-P	Assay-dependent
IP	Assay-dependent
WB	Assay-dependent

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

Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide

Concentration	1 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	Wipi2
Gene Full Name	WD repeat domain, phosphoinositide interacting 2
Function	Early component of the autophagy machinery being involved in formation of preautophagosomal structures and their maturation into mature phagosomes in response to phosphatidylinositol 3-phosphate (PtdIns3P). Recruits the ATG12-ATG5-ATG16L1 complex to omegasomes, resulting in ATG8 family proteins lipidation and starvation-induced autophagy. Omegasomes are derived from ER and serve as intermediates for genesis of isolation membrane (also called preautophagosome) from ER cisternae membranes. [UniProt]
Calculated Mw	49 kDa