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Datasheet for ABIN361366 anti-Rho-related GTP-binding protein antibody

2 Publications



Overview

Quantity:	100 μL
Target:	Rho-related GTP-binding protein (RhO (pan))
Reactivity:	Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Rho-related GTP-binding protein antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Purified native bovine rhodopsin

Clone:	1D4
Isotype:	lgG1
Specificity:	Specific for the ~ 39k rhodopsin protein.
Cross-Reactivity:	Amphibian, Mammalian
Purification:	Protein G purified culture supernatant

Target Details

Target:	Rho-related GTP-binding protein (RhO (pan))
Alternative Name:	RHO (RhO (pan) Products)
Target Type:	Chemical

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Target Details	
Background:	Rhodopsin is a photoreceptor protein found in retinal rods. It is a complex formed by the
	binding of retinaldehyde, the oxidized form of retinol, to the protein opsin and undergoes a
	series of complex reactions in response to visible light resulting in the transmission of nerve
	impulses to the brain. Mutation of the rhodopsin gene is a major contributor to various
	retinopathies such as retinitis pigmentosa. The disease-causing protein generally aggregates
	with ubiquitin in inclusion bodies, disrupts the intermediate filament network and impairs the
	ability of the cell to degrade non-functioning proteins which leads to photoreceptor apoptosis
	(Berson et al., 1991). Other mutations on rhodopsin lead to X-linked congenital stationary night
	blindness, mainly due to constitutive activation, when the mutations occur around the
	chromophore binding pocket of rhodopsin (Dryja et al.,1993). Several other pathological states
	relating to rhodopsin have been discovered including poor post-Golgi trafficking, dysregulative
	activation, rod outer segment instability and arrestin binding. Anti-Rhodopsin
	Immunohistochemical staining of mouse retinal section showing specific immunolabeling of
	the rhodopsin protein in the rod spherules. Photo courtesy of Mary Raven, University of
	California, Santa Barbara, CA.
Molecular Weight:	'39 kDa
Gene ID [.]	500033

Gene ID:	509933
UniProt:	P02699

Application Details

Application Notes:	Recommended Dilution: WB: 1:1000 IHC: 1:100 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 μL in 10 mM HEPES ($$ pH 7.5), 150 mM NaCl, 100 μg per ml BSA and 50 % glycerol.
Storage:	-20 °C

Publications

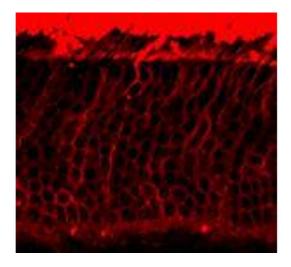
Product cited in:

Vendramin, Verheyden, Ishikawa, Goedert, Nicolas, Saraf, Armaos, Delli Ponti, Izumikawa, Mestdagh, Lafontaine, Tartaglia, Takahashi, Marine, Leucci: "SAMMSON fosters cancer cell

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Langhendries, Nicolas, Doumont, Goldman, Lafontaine: "The human box C/D snoRNAs U3 and U8 are required for pre-rRNA processing and tumorigenesis." in: **Oncotarget**, Vol. 7, Issue 37, pp. 59519-59534, (2018) (PubMed).

Images



Immunohistochemistry

Image 1. Immunohistochemical staining of mouse retinal section showing specific immunolabeling of the rhodopsin protein in the rod spherules. Photo courtesy of Mary Raven, University of California, Santa Barbara, CA.