

ARG45245 anti-VPS53 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Polyclonal antibody recognizes VPS53
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	VPS53
Species	Human
Immunogen	Recombinant protein containing to human VPS53.
Conjugation	Un-conjugated
Alternate Names	VPS53; VPS53 Subunit Of GARP Complex; HCCS1; Vacuolar Protein Sorting-Associated Protein 53 Homolog; Hepatocellular Carcinoma Suppressor 1; VPS53, GARP Complex Subunit; FLJ10979; Vacuolar Protein Sorting 53 Homolog (S. Cerevisiae); Vacuolar Protein Sorting 53 (Yeast); HVps53L; Pp13624; PCH2E

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 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	100 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 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

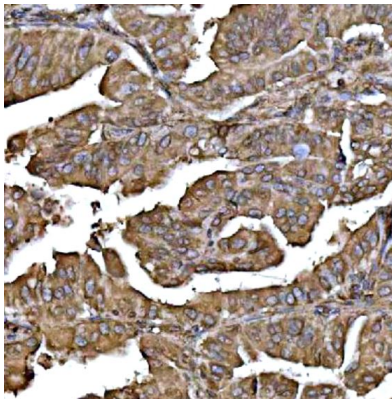
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

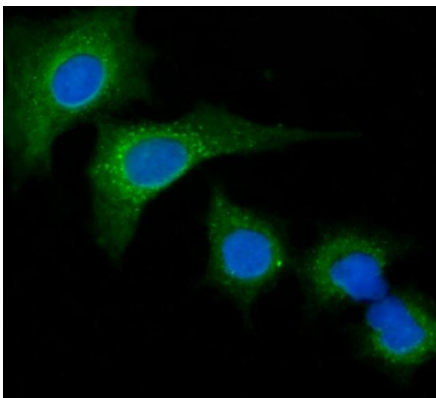
Gene Symbol	VPS53
Gene Full Name	VPS53 Subunit Of GARP Complex
Background	Involved in endocytic recycling and retrograde transport, endosome to Golgi. Acts upstream of or within lysosomal transport. Located in several cellular components, including Golgi apparatus; perinuclear region of cytoplasm; and recycling endosome. Part of EARP complex and GARP complex. Implicated in pontocerebellar hypoplasia type 2E. [provided by Alliance of Genome Resources, Nov 2024]
Function	Acts as a component of the GARP complex that is involved in retrograde transport from early and late endosomes to the trans-Golgi network (TGN). The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD. [UniProt]
Calculated Mw	94 kDa
PTM	Acetylation ; Phosphoprotein. [UniProt]
Cellular Localization	Endosome ; Golgi apparatus ; Membrane. [UniProt]

Images



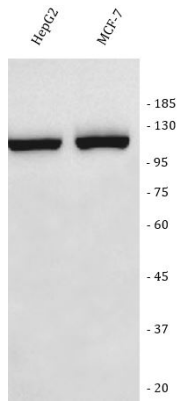
ARG45245 anti-VPS53 antibody IHC-P image

Immunohistochemistry: Human lung adenocarcinoma stained with ARG45245 anti-VPS53 antibody at 2 µg/ml dilution.



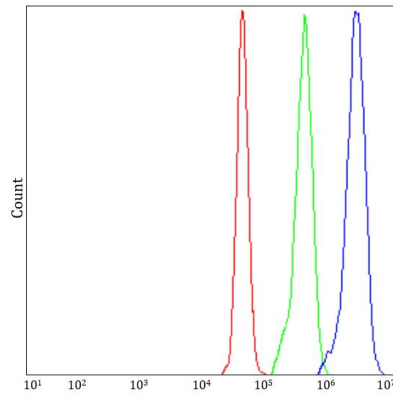
ARG45245 anti-VPS53 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG45245 anti-VPS53 antibody at 5 µg/ml dilution.



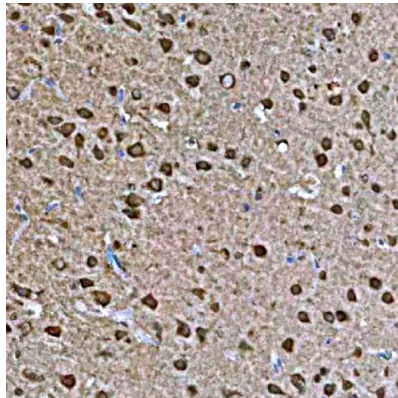
ARG45245 anti-VPS53 antibody WB image

Western blot: HepG2 and MCF-7 stained with ARG45245 anti-VPS53 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



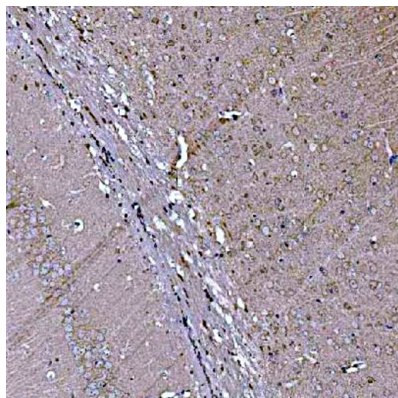
ARG45245 anti-VPS53 antibody FACS image

Flow Cytometry: U87 stained with ARG45245 anti-VPS53 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



ARG45245 anti-VPS53 antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG45245 anti-VPS53 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.



ARG45245 anti-VPS53 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG45245 anti-VPS53 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.