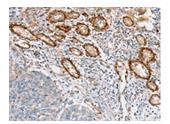
SEMA7A Antibody

PACO20425



Product Information	
Size:	Protein Background:
50ul	Mitochondrial inner membrane calcium uniporter that mediates calcium uptake into mitochondria. Constitutes the pore-forming and calcium-conducting subunit of the uniporter complex (uniplex). Activity is regulated by MICU1 and MICU2. At low Ca(2+) levels MCU activity is down-regulated by MICU1 and MICU2; at higher Ca(2+) levels MICU1 increases MCU activity. Mitochondrial calcium homeostasis plays key roles in cellular physiology and regulates cell bioenergetics, cytoplasmic calcium signals and activation of cell death pathways. Involved in buffering the amplitude of systolic calcium rises in cardiomyocytes. While dispensable for baseline homeostatic cardiac function, acts as a key regulator of short-term mitochondrial calcium loading underlying a 'fight-or-flight' response during acute stress: acts by mediating a rapid increase of mitochondrial calcium in pacemaker cells. participates in mitochondrial permeability transition during ischemia-reperfusion injury. Gene ID: SEMA7A Uniprot
Reactivity:	
Human, Mouse	
Source:	
Rabbit	
lsotype:	
lgG	
Applications:	
Elisa, ihc	
Recommended dilutions:	
ELISA:1:1000-1:2000, IHC:1:25-1:100	O75326
	Synonyms:
	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)
	Immunogen:
	Synthetic peptide of human SEMA7A.
	Storage:

-20° C, pH7.4 PBS, 0.05% NaN3, 40% Glycerol



The image on the left is immunohistochemistry of paraffin-embedded Human lung cancer tissue using PACO20425(SEMA7A Antibody) at dilution 1/35, on the right is treated with synthetic peptide. (Original magnification: x—200).