

For Research Use Only

CoraLite®594-conjugated P62,SQSTM1 Monoclonal antibody



Catalog Number:CL594-66184

Featured Product

Basic Information

Catalog Number: CL594-66184	GenBank Accession Number: BC017222	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8878	CloneNo.: 1H5C1
Source: Mouse	Full Name: sequestosome 1	Recommended Dilutions: IF 1:50-1:500
Isotype: IgG2a	Calculated MW: 48 kDa	Excitation/Emission maxima wavelengths: 593 nm / 614 nm
Immunogen Catalog Number: AG13131	Observed MW: 62 kDa	

Applications

Tested Applications: IF	Positive Controls: IF : HepG2 cells, Chloroquine treated U2OS cells
Species Specificity: human	

Background Information

Sequestosome 1 (SQSTM1/p62) is a multifunctional adaptor protein implicated in selective autophagy, cell signaling pathways, and tumorigenesis. p62 has been implicated in shuttling ubiquitinated and sometimes aggregated proteins for autophagic degradation. As a autophagy-specific substrate, p62 is degraded during the autophagic process, which makes intracellular level of p62 as a marker for autophagy flux. p62 is at the cross-roads of several signaling pathways including Ras/ Raf/ MAPK and NFκB and plays important role in cancer. p62 is a component of inclusion bodies/ protein aggregates found in human diseases, including Huntington's disease, Alzheimer's disease, Parkinson's disease in the brain, and nephropathic cystinosis in kidney (PMID: 22074114, 22860231, 22714671). The molecular weight of p62 is predicted as 48/ 38 kDa, while western blot analyses using this antibody demonstrate the major band around 60-62 kDa in various tissues.

Storage

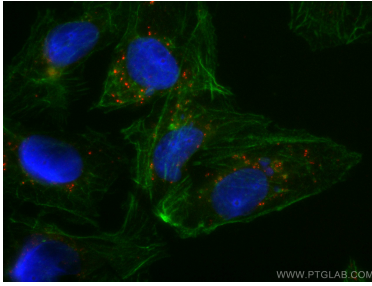
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

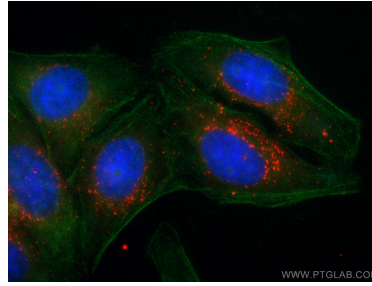
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated U2OS cells using CoraLite®594 P62/SQSTM1 antibody (CL594-66184, Clone: 1H5C1) at dilution of 1:100, CL488-Phalloidin (green).



Immunofluorescent analysis of (-20°C Ethanol) fixed Chloroquine treated HepG2 cells using CoraLite®594-conjugated P62/SQSTM1 antibody (CL594-66184, Clone: 1H5C1) at dilution of 1:100.