

**DATASHEET**
**p62 Mouse Monoclonal Antibody(C2976)**
**CAT. NO. AMA02588**
**KEY FEATURES**

Target	p62	Source / Host	Mouse
Reactivity	Human	Clonality	Monoclonal
Applications	WB, IHC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Molecular adapter required for selective macroautophagy (aggrephagy) by acting as a bridge between polyubiquitinated proteins and autophagosomes by acting as a bridge between polyubiquitinated proteins and autophagosomes . Promotes the recruitment of ubiquitinated cargo proteins to autophagosomes via multiple domains that bridge proteins and organelles in different steps . SQSTM1 first mediates the assembly and removal of ubiquitinated proteins by undergoing liquid-liquid phase separation upon binding to ubiquitinated proteins via its UBA domain, leading to the formation of insoluble cytoplasmic inclusions, known as p62 bodies .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:500
FC	1:100 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Mouse monoclonal to p62
Specificity	Recognizes endogenous levels of p62 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human p62 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 48 kD; Observed: 70 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ORCA; OSIL; Sequestosome-1; EB13-associated protein of 60 kDa; EB1AP; p60; Phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa; Ubiquitin-binding protein p62
Gene Symbol	SQSTM1
Entrez Gene	8878(Human)
SwissProt	Q13501(Human)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

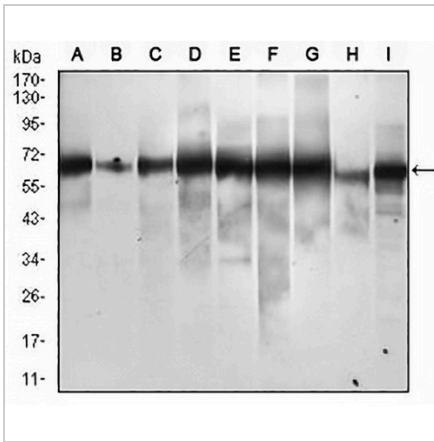
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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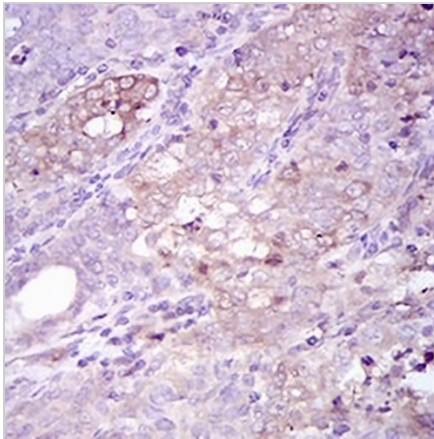
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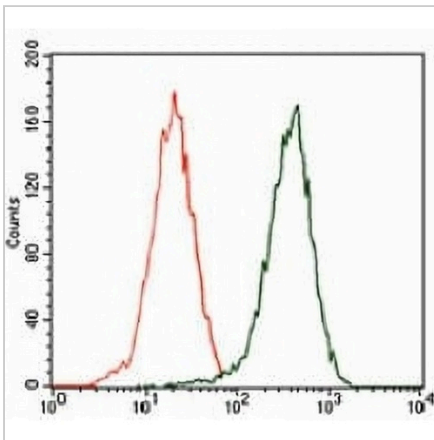
**DATA**



Western blot analysis of p62 expression in HeLa (A), Jurkat (B), THP1 (C), HEK293 (D), A549 (E), MCF7 (F), HepG2 (G), COS7 (H), SKBR3 (I) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 70 kD kD)



Immunohistochemical analysis of p62 staining in human cervical cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Flow cytometric analysis of HEK293 cells using Anti-p62 Antibody (green) and negative control (red).

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.