Product Name
Monoclonal Mouse Anti-Ubiquitin, Immunoglobulin, clone C1

CAT No.
MQR 1.1101

Quantity
100 µg

orders@immunoprecise.com
www.immunoprecise.com

Edition: January 18th, 2016

Intended use
This product is for research use only. NOT for use in diagnostic or therapeutic procedures.
This product is tested for use in enzyme-linked immunosorbent assay (ELISA) and western blot.

Reagent provided
The antibody is supplied in PBS, at a concentration of 1.041 mg/ml

Isotype
Mouse IgG2a

Immunogen
Ubiquitin

Specificity
Specificity has been tested in ELISA (figure 1) and western blot (figure 2).

Purity
Protein A purified.

Precautions
1. For professional users.
2. As with any product derived from biological sources, proper handling procedures should be used.
3. The product may be used in different techniques and in combination with different sample types and materials, therefore each individual laboratory should validate the applied test system.

Preparation of the antibody
Use antibody as supplied.

Storage instructions
Store at 2-8°C.

Application guidelines
ELISA: 0.05 - 0.5 µg/ml
Western blot: 1 - 10 µg/ml
Unless the stability in the actual test system has been established, it is recommended to dilute the product immediately before use.

Relevance
Free (unanchored) ubiquitin plays a distinct role in activation of protein kinases and in signalling. Covalently bound ubiquitin has multiple functions. Depending on the specific protein that is ubiquitinated, ubiquitin may be involved in processes like DNA repair, cell cycle regulation, endoplasmic reticulum-associated degradation or kinase modification. Therefore, the anti-ubiquitin antibody can be used to study protein modifications.

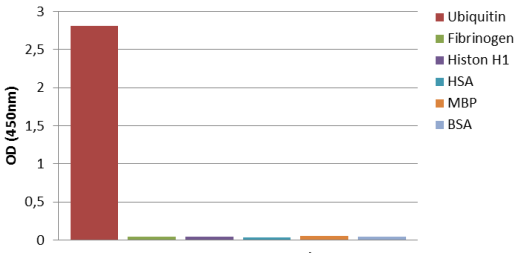

Figure 1: Specificity of anti-Ubiquitin Immunoglobulin, clone C1, determined by ELISA. Antibody diluted to 0.5 µg/ml in PBS containing 0.05% Tween-20 and 1% BSA. Antibody was tested on ubiquitin and negative controls; fibrinogen, histone H1, Human Serum Albumin, MBP and Bovine Serum Albumin.

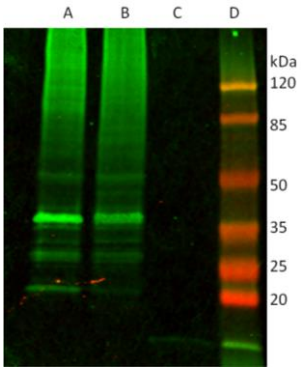

Figure 2: Specificity of anti-Ubiquitin immunoglobulin, clone C1, determined by western blot on ubiquitin, HEK293F cell lysate and CHO-K1 cell lysate.
A: represents CHO-k1 nuclear lysate; B: HEK293F nuclear lysate; C: ubiquitin and D: 120kDa protein marker. Cells were lysed with HEPES lysis buffer and incubated with anti-ubiquitin antibody (10µg/ml) and fluorescent secondary antibody goat-anti-mouse (1:10,000).
Binding of the antibodies was detected using Odyssey infrared imaging.