

Lot # XXXXX

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MATERIAL DATA SHEET

Anti-Ubiquitin K48 Linkage Monoclonal Antibody Cat. # A-101

Polyubiquitin chains are composed of ubiquitin monomers that are covalently linked through isopeptide bonds (other than linear, or "Met1-linked" polyubiquitin). Isopeptides are formed between a lysine residue of one Ubiquitin molecule and the C-terminal glycine residue of another Ubiquitin molecule. Seven of the seventy-six amino acids in ubiquitin are lysine residues that can participate in polyubiquitin chain formation. Linkage through specific lysine residues is thought to serve as a signal that affects protein degradation, signaling, trafficking, and other cellular processes. K48-linked polyubiquitin chains attached to substrate proteins often serve as a recognition sequence for targeting and destruction of the substrate by the 26S Proteasome. This antibody detects the K48 linkage. It does not detect monoubiquitin or ubiquitin linked via any other lysine residue. Reactivity across all species is anticipated.

Product Information

Quantity:	50 µg
Source:	Monoclonal Rabbit IgG Clone # 1001c
Antigen:	K48-linkage from human ubiquitin. Accession Number # P0CG47
Purification:	Protein A purified
Stock:	0.5 mg/mL in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide

Use & Storage

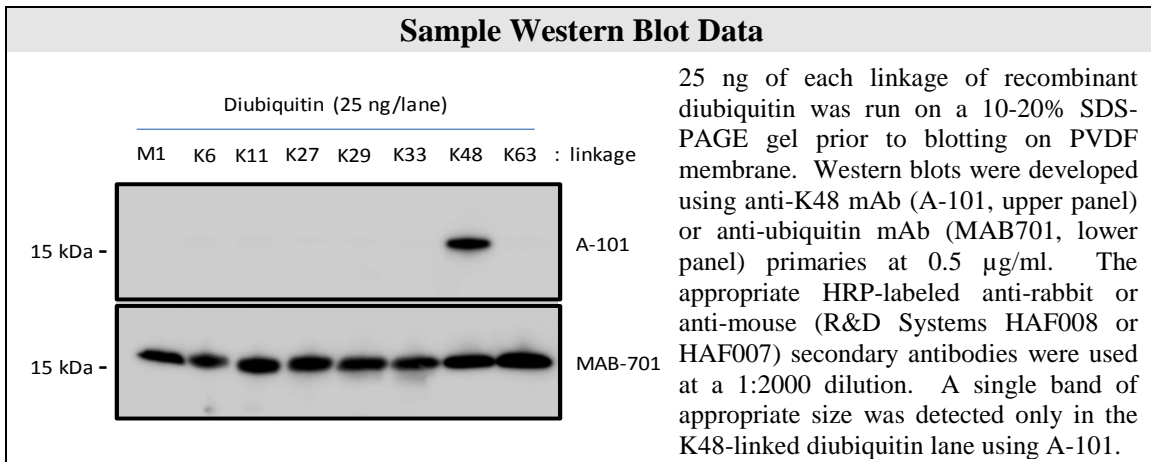
Specificity:	This antibody detects endogenous, human proteins containing K48-linked polyubiquitin chains in Western blots. This antibody detects purified, recombinant K48-linked polyubiquitin chains, but has no cross-reactivity to monoubiquitin or polyubiquitin of other linkages.
Use:	Recommended concentration for Western blot is 0.1-0.5 µg/ml.
Storage:	Store at -20°C.

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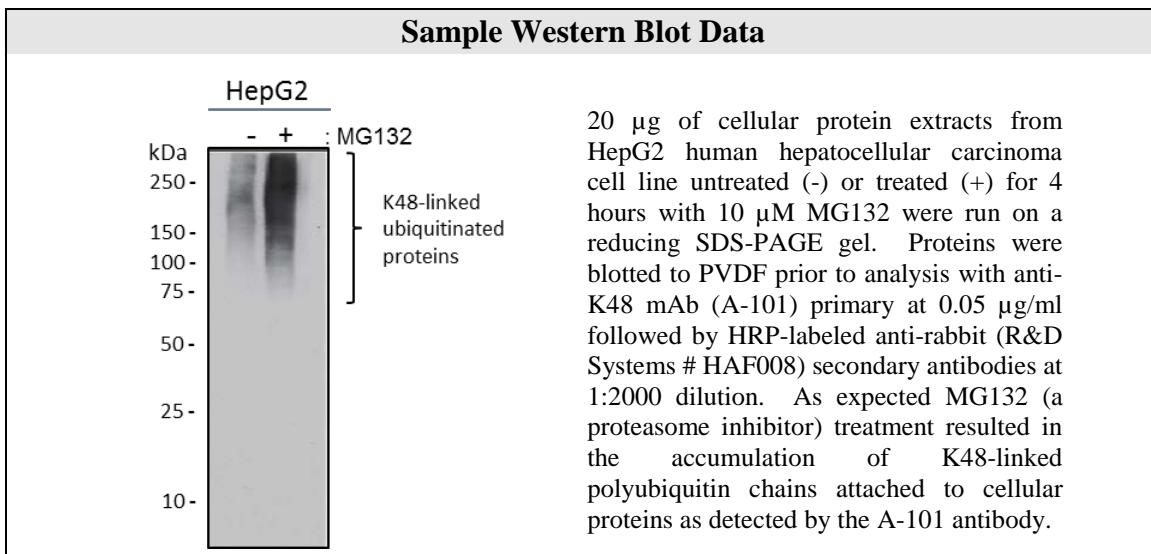
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Sample Western Blot Data



Sample Western Blot Data



Literature

- References:** Behrends, C. & J.W. Harper (2011) *Nat. Struct. Mol. Biol.* **18**: 520.
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 Scheffner, M. *et al.* (1995) *Nature* **373**: 81.
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 Tong, X. *et al.* (2012) *J. Biol. Chem.* **287**: 25280.
 Wei, W. *et al.* (2004) *Nature* **428**: 194.
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