

## Overview

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<b>Product Name</b>	Anti-diUbiquitin K6-linkage Affimer (44-29)
<b>Catalogue Code</b>	AVA00015
<b>Description</b>	Affimer (44-29) to diUbiquitin K6-linkage
<b>Clone ID</b>	44-29
<b>Tested Applications</b>	Direct ELISA
<b>Tags</b>	C-term 6His
<b>Conjugate</b>	None

## Properties

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<b>Form</b>	Liquid
<b>Storage Instructions</b>	For short term use, store at 4°C. We recommend aliquoting and storing at -20°C long term. Affimers are generally unaffected by 3-4 freeze/thaw cycles.
<b>Buffer</b>	100mM Sodium Phosphate, 75mM Sodium Chloride, 0.02% Sodium Azide, pH 6.5
<b>Purity</b>	>95%
<b>Purification Method</b>	IMAC-SEC
<b>Clonality</b>	Monoclonal

## Target

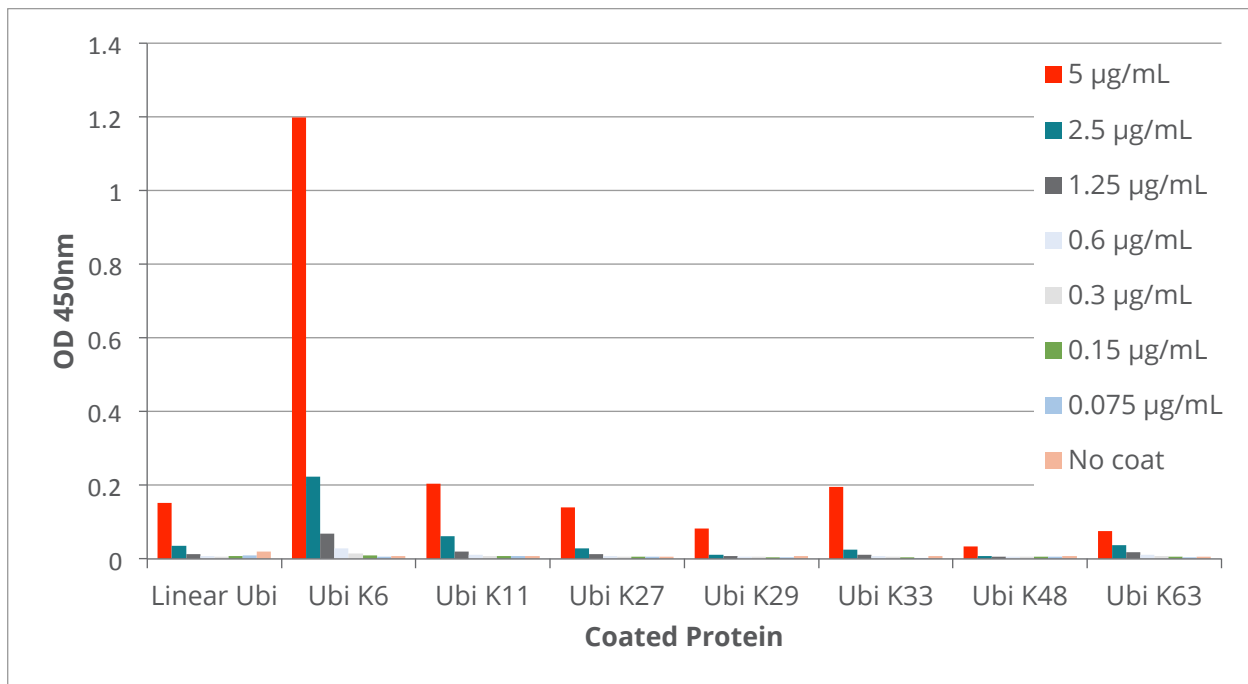
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<b>Target</b>	diUbiquitin K6-linkage
<b>Affimer Reactivity</b>	Human
<b>Target Uniprot ID</b>	P0CG47
<b>Target Function</b>	Ubiquitin is one of the most conserved proteins known. It has a major role in targeting cellular proteins for degradation by the 26S proteasome. It is also involved in sub-cellular targeting, the maintenance of chromatin structure, DNA repair, the regulation of gene expression, cell cycle regulation, kinase modification, endocytosis, the regulation of other cell signaling pathways and the stress response. Ubiquitin is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin moiety fused to an unrelated protein. This gene consists of three direct repeats of the ubiquitin coding sequence with no spacer sequence. Consequently, the protein is expressed as a polyubiquitin precursor with a final amino acid after the last repeat. An aberrant form of this protein has been detected in patients with Alzheimer's disease and Down syndrome. Pseudogenes of this gene are located on chromosomes 1, 2, 13, and 17. Alternative splicing results in multiple transcript variants.
<b>Research Area</b>	Cell Signalling / UPS

**Applications**

**Direct ELISA**

This Affimer has been tested in direct ELISA against the following proteins using the method shown below.



**Coating:** Nunc Maxisorp 96-well flat-bottomed plates coated with target protein at 1 µg/ml in 15mM Sodium Carbonate, 35mM Sodium Bicarbonate, pH 9.0 for 16h at 4°C

**Wash 1:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)

**Blocking:** 1 x Sigma Block (2 h, RT°C, 400 rpm)

**Wash 2:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)

**Affimer Incubation:** 2µg/ml in 1x Sigma Block PBS (1 h, RT°C, 400 rpm)

**Wash 3:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)

**Detection:** Rabbit anti-6xHis HRP conjugate, 1/10,000 dilution in 1 x Sigma Block PBS

**Wash 4:** 3 x 300 µl of 1xPBS-T (0.05% Tween-20)

**Substrate:** TMB, stopped with 0.5M H2SO4