PRODUCT DATA SHEET
Affimer (48-1) to diUbiquitin K33-linkage

Overview

Product Name	Anti-diUbiquitin K33-linkage Affimer (48-1)
Catalogue Code	AVA00016
Description	Affimer (48-1) to diUbiquitin K33-linkage
Clone ID	48-1
Tested Applications	Direct ELISA
Tags	C-term 6His
Conjugate	None

Properties

Form	Liquid
Storage Instructions	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.
Buffer	100mM Sodium Phosphate, 75mM Sodium Chloride, 0.02% Sodium Azide, pH 7.4
Purity	>95%
Purification Method	IMAC
Clonality	Monoclonal

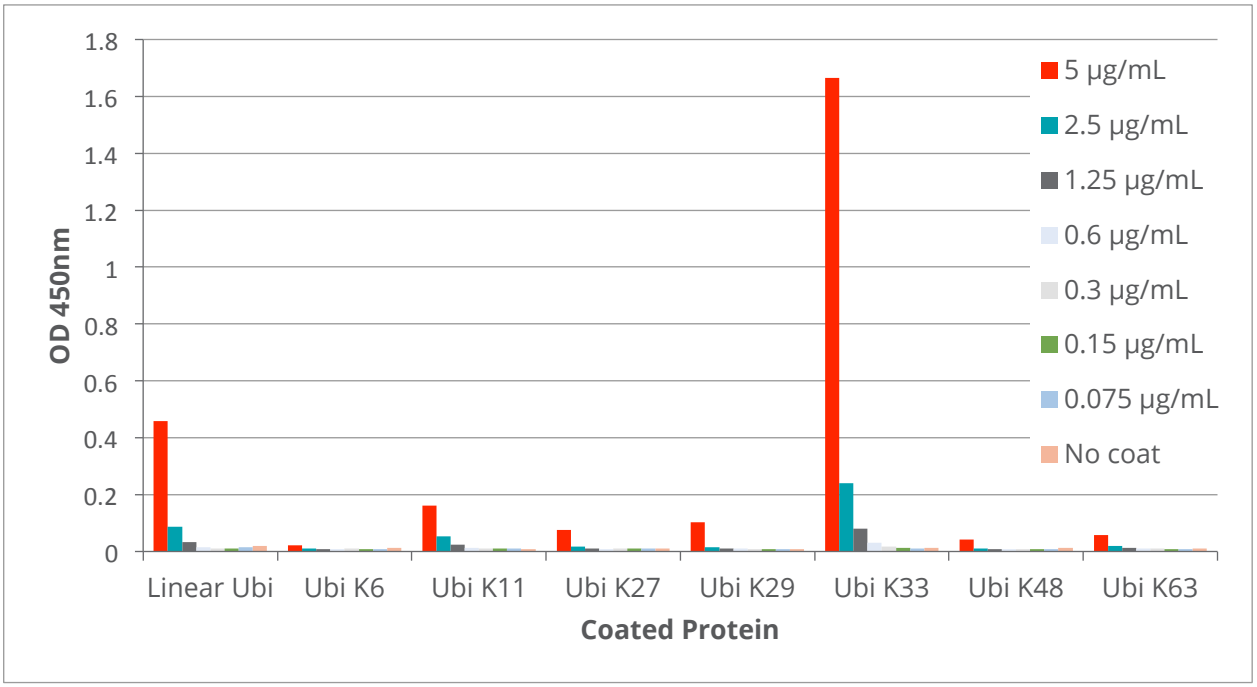
Target

Target	diUbiquitin K33-linkage
Affimer Reactivity	Human
Target Uniprot ID	P0CG47
Target Function	Ubiquitin is one of the most conserved proteins known. It has a major role in targeting cellular proteins for degradation by the 26S proteosome. 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.
Research Area	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