

For Research Use Only

HUWE1 Recombinant antibody, PBS Only (Detector)

Catalog Number: 85177-3-PBS



Basic Information

Catalog Number: 85177-3-PBS	GenBank Accession Number: BC002602	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 10075	CloneNo.: 242702F10
Source: Rabbit	UNIPROT ID: Q7Z6Z7	
Isotype: IgG	Full Name: HECT, UBA and WWE domain containing 1	
Immunogen Catalog Number: AG13763	Calculated MW: 437 aa, 482 kDa	
	Observed MW: 482 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse

Product Information

85177-3-PBS targets HUWE1 as part of a matched antibody pair:

MP01895-2: 85177-1-PBS capture and 85177-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

HUWE1 encodes a HECT domain ubiquitin ligase which is a large protein (500 kDa) has attracted considerable interest because several and quite disparate substrates have been assigned to this E3. It has a role in regulating Berg-mann glia differentiation and this ubiquitin ligase orchestrates the programming of the neural progenitors that give rise to neurons and glia in the cerebellum. HUWE1 is essential for proliferation of a subset of tumor cells, and negative regulator of TP53 during the colorectal carcinoma progression through the ubiquitination pathway mediated by the HECT domain (PMID:15567145). HUWE1 plays a critical role in lung cancer and increased HUWE1 expression is significantly associated with worse prognosis which suggest that HUWE1 might be a potential target for lung cancer therapy (PMID: 30026863).

Storage

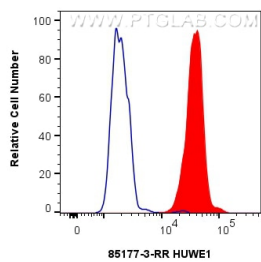
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

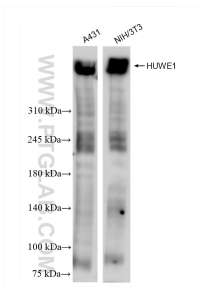
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

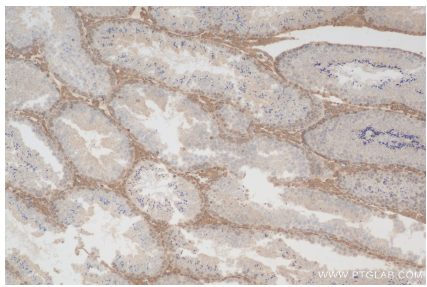
Selected Validation Data



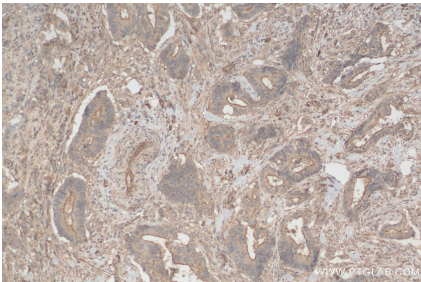
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug HUWE1 Recombinant antibody (85177-3-RR, Clone:242702F10) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 85177-3-PBS in a



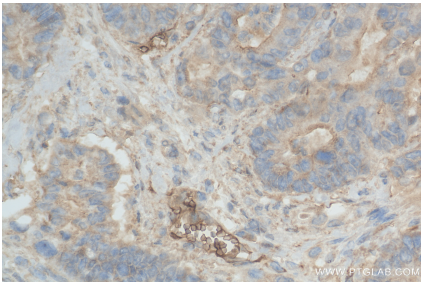
Various lysates were subjected to SDS PAGE followed by western blot with 85177-3-RR (HUWE1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85177-3-PBS in a different storage buffer formulation.



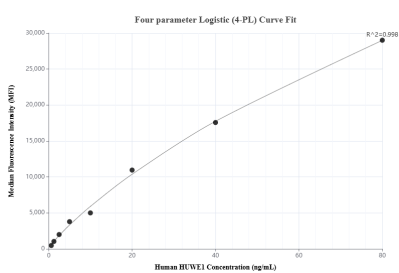
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 85177-3-RR (HUWE1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85177-3-PBS in a different storage buffer formulation.



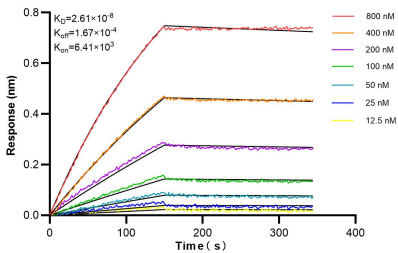
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 85177-3-RR (HUWE1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85177-3-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 85177-3-RR (HUWE1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 85177-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01895-2, HUWE1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85177-1-PBS. Detection antibody: 85177-3-PBS. Standard: Ag13763. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assays of 85177-3-RR against Human HUWE1 were performed. The affinity constant is 26.1 nM.