

For Research Use Only

DFFA/DFF45 Monoclonal antibody, PBS Only (Capture/Detector)

Catalog Number: 68177-1-PBS



Basic Information

Catalog Number:	68177-1-PBS	GenBank Accession Number:	BC000037	Purification Method:	Protein G purification
Concentration:	1mg/ml	GeneID (NCBI):	1676	CloneNo.:	1F6H9
Source:	Mouse	UNIPROT ID:	O00273		
Isotype:	IgG1	Full Name:	DNA fragmentation factor, 45kDa, alpha polypeptide		
Immunogen Catalog Number:	AG32657	Calculated MW:	37 kDa		
		Observed MW:	42 kDa		

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Apoptosis is accompanied by shrinkage and fragmentation of the cells and nuclei and degradation of the chromosomal DNA into nucleosomal units. DNA fragmentation factor (DFF), heterodimer of 40-kDa (DFFB) and 45-kDa (DFFA) subunits, is one of the major endonucleases responsible for internucleosomal DNA cleavage during apoptosis. DFFA is the substrate for caspase-3 and triggers DNA fragmentation during apoptosis. DFF activated after cleavage of DFFA by caspase-3 followed by its dissociation from DFFB. DFFB has been found to trigger both DNA fragmentation and chromatin condensation during apoptosis. DFFA appears to be a 45-kDa protein despite the predicated MW of 37 kDa.

Storage

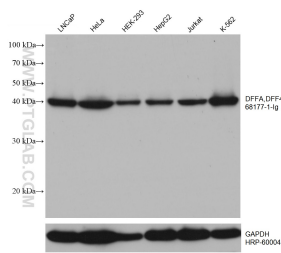
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

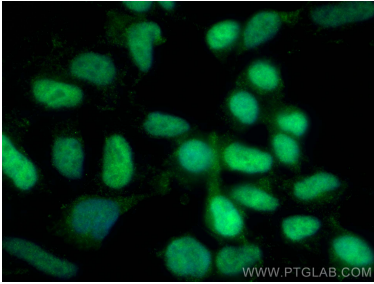
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

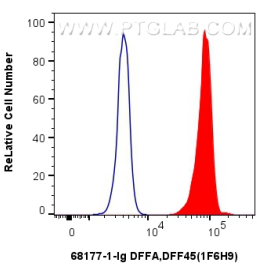
Selected Validation Data



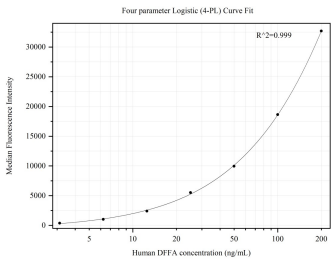
Various lysates were subjected to SDS PAGE followed by western blot with 68177-1-Ig (DFFA,DFF45 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 68177-1-PBS in a different storage buffer formulation.



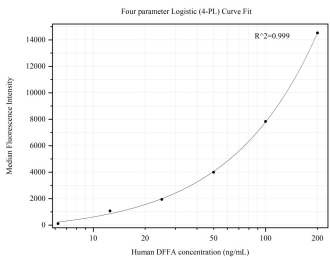
Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using DFFA,DFF45 antibody (68177-1-Ig, Clone: 1F6H9) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68177-1-PBS in a different storage buffer formulation.



1x10⁶ HEK-293 cells were intracellularly stained with 0.8 ug DFFA,DFF45 Monoclonal antibody (68177-1-Ig, Clone:1F6H9) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1)(red), or 0.8 ug Mouse IgG1 isotype control Mouse McAb (66360-1-Ig, Clone: 1F8D3) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 68177-1-PBS in a different storage buffer



Cytometric bead array standard curve of MP50354-1, DFFA,DFF45 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68177-1-PBS. Detection antibody: 68177-2-PBS. Standard:Ag32657. Range: 3.125-200 ng/mL



Cytometric bead array standard curve of MP50354-2, DFFA,DFF45 Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 68177-3-PBS. Detection antibody: 68177-1-PBS. Standard:Ag32657. Range: 6.25-200 ng/mL