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34-1119: Monoclonal Antibody to Ubiquitin (Clone: Ubi-1)

Clonality :	Monoclonal
Clone Name :	Ubi-1
Application :	ICC/IF,IHC,WB
Reactivity :	Human
Gene :	UBB, UBC
Gene ID :	7314
Uniprot ID :	P0CG47
Format :	Ascites
Isotype :	Mouse, IgG1
Immunogen Information :	Purified ubiquitin conjugated with glutaraldehyde to KLH

Product Info

Amount :	100 µl
Content :	Antibody is supplied as an aliquot of 1 mg/ml of affinity purified antibody or ascites fluid.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

WB: 1:1,000-1:2,000. ICC/IF and IHC: 1:2,000

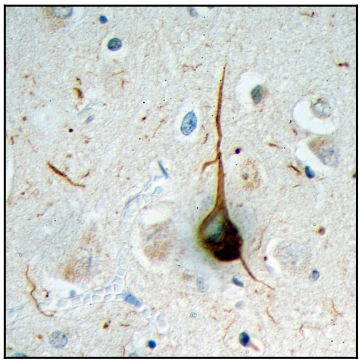


Figure-1: Formalin fixed paraffin embedded section of cerebral cortex of an Alzheimer patient processed with 34-1119 using HRP/DAB, giving a brown signal. Also stained with haemotoxylin in blue. A typical flame shaped tangle is seen in a pyramidal neuron in the center and is surrounded by some dystrophic neurites, also strongly ubiquitin positive. Both are commonly seen in cortical and hippocampal Alzheimer brain sections and are typical for this disease, but are rare or absent in healthy brain.

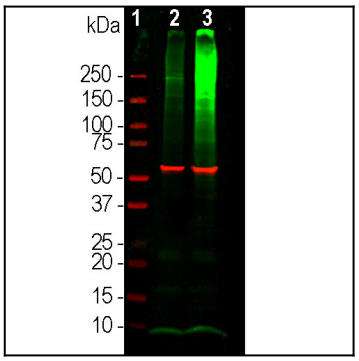


Figure-2: Western blot analysis of HEK293 cell lysates using mouse mAb to ubiquitin, 34-1119, dilution 1:1,000 in green. [1] protein standard (red), [2] cells maintained in normal medium, [3] cells treated with 10µM of proteasome inhibitor lactacystin (Lc) for 16hrs. Lysed cells were electrophoresed on 4-20% SDS-PAGE, and transferred to PVDF membranes. The smear detected above the 200kDa standard represent accumulation of ubiquitinated proteins in proteasome inhibitor-Lc treated cells. The prominent band at 8kDa corresponds to monoubiquitin. The same blot was probed with rabbit pAb to HSP60, dilution 1:5,000 in red, used as a loading control.

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