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36-3025: Monoclonal Antibody to UchL1 (Clone: 31A3)

Clonality :	Monoclonal
Clone Name :	31A3
Application :	FACS
Reactivity :	Rat,Mouse,Human
Gene :	UCHL1
Gene ID :	7345
Uniprot ID :	P09936
Format :	Purified
Alternative Name :	UCHL1
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Native UchL1 (PGP9.5) protein from brain was used as immunogen to generate the antibody.

Description

UchL1 (ubiquitin C-terminal hydrolase), also known as PGP9.5 (protein gene product 9.5) and PARK5, is a neuronal biomarker and ubquitin system protein.UchL1 is a highly conserved antibody and has shown that it is expressed in neurons and neuroendocrine cells in vertebrates where it comprises about 5-10% of soluble cytoplasmic proteins. A minor proportion of UchL1 in brain is tightly bound to the membrane. UchL1 antibody is also expressed in human oocytes and spermatogonia. It is important to note that the use of an antibody as a biomarker in this case does not imply that an antibody defines absolute tissue specificity. Rather, it means that PGP9.5 is expressed in neurons and neuroendrocine cells at significantly higher levels than in other cell types.

Product Info

Amount :	100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
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

Flow Cytometry (1-2ug/million cells), Immunofluorescence (1-2ug/ml), Western Blot (1-2ug/ml), Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes)

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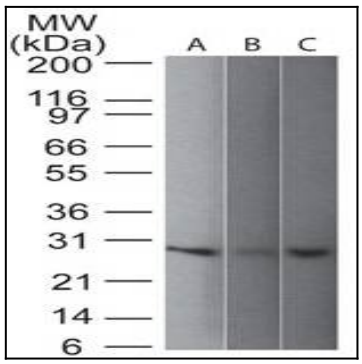

Fig: 1 Western blot analysis analysis of UchL1. Anti-UchL1 antibody (Clone: 31A3) was used at 1 µg/ml in 1) human, 2) mouse and 3) rat brain lysate.

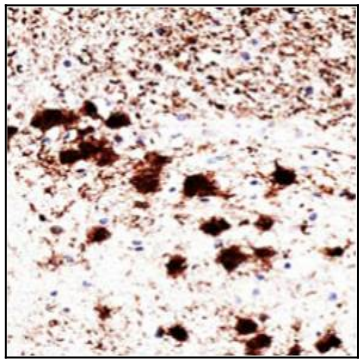

Fig: 2 Immunohistochemical analysis of UchL1 in human Brain using UchL1 antibody (Clone: 31A3) at 1: 500 dilution.

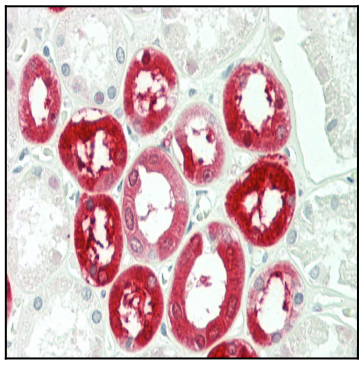

Fig: 3 Immunohistochemical analysis of UchL1 in human Kidney tissue using UchL1 antibody (Clone: 31A3) at 10 µg/ml.