

Mouse anti-Cathepsin D Antibody (Clone: C-15)

Storage: 2-8°C

Catalog No: M3016 1ml
M3016S 0.2ml
M3016U 6ml

Intended Use and Background:

Cathepsin D is a ubiquitously expressed lysosomal aspartyl protease involved in the normal degradation of proteins. It is synthesized as an inactive 43 kDa procathepsin D that is cleaved and glycosylated to form a 46 kDa procathepsin D and then further cleaved to produce 28 kDa and 15 kDa. Cathepsin D may also be secreted into the cytosol during apoptosis and contribute to cleavage of substrates implicated in the apoptotic pathway. Numerous studies have suggested that cathepsin D plays a role in neuronal degradation and malignant transformation, particularly in breast cancer.

Kit Components:

Mouse anti-Cathepsin D Antibody is from mouse ascites fluid and preserved in PBS buffer containing BSA and 0.1% sodium azide.

Clone: C-15
Isotype: IgG_{2a}
Immunogen: Purified human protein
Reacts with: Human, others not tested

Catalog No.	Format	Size
M3016	Concentrate	1 ml
M3016S	Concentrate	0.2ml
M3016U	Ready-to-use	6ml

Positive Control Tissue: Human breast carcinoma

Staining pattern: Lysosomal

Pretreatment required: Not required.

Recommended Protocol:

Application tested: ELISA, IHC (FFPE). Working dilution for formalin-fixed paraffin-embedded human tissue section is from 1:50-200 depending on the detection system used. Optimal dilution needs to be determined by the investigator.

Manual staining procedure:

1. Deparaffinize slides
2. Submerge slides in peroxidase quenching solution for 10 minutes and rinse with PBS 3 times, 2 minutes each.
3. Apply serum blocking solution (optional if use polymer detection system)
4. Apply primary antibody and incubate for 30-60 minutes at room temperature and rinse with PBS 3 times, 2 minutes each.
5. Apply secondary antibody and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
6. Apply enzyme conjugate and incubate according to the data sheet of detection system. Rinse with PBS 3 times, 2 minutes each.
7. Apply chromogen and incubate 5-10 minutes and rinse with PBS.

Precaution:

Wear gloves and take other necessary laboratory safety procedure.

Storage: Store at 2-8°C.

Remarks: For research use only. Not for diagnostic or therapeutic use.