

## CATHEPSIN K Assay Kit | CTSK assay kit

MAGIC RED CATHEPSIN K KIT

CATALOG #  
**AAA50651**

APPLICATIONS  
**Immunofluorescence**

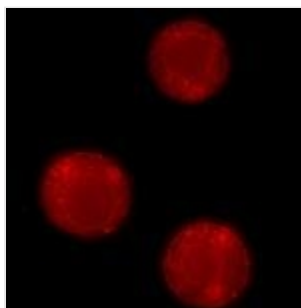
### PRODUCT SYNONYMS

CATHEPSIN K; MAGIC RED CATHEPSIN K KIT; CTSK assay kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form/Format                                | Kit                                                                                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                            | 329                                                                                                                                                                                                                                                                                                                                                                                      |
| Reagents In The Kits                       | Magic Red MR-(LR)2 Reagent - lyophilized<br>Hoechst 33342 Stain, 1 mL<br>Acridine orange (AO), 0.5 mL                                                                                                                                                                                                                                                                                    |
| Applicable Applications for CTSK assay kit | IF (Immunofluorescence)                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage                    | Store the unopened kit (and each unopened component) at 4 degree C until the expiration date.<br>Protect the MR-(LR)2 reagent from light at all times.<br>Once reconstituted, the 260X MR-(LR)2 stock should be stored at -20 degree C protected from light.<br>Shelf Life: The 260X MR-(LR)2 reconstituted stock is stable for up to 6 months and may be thawed twice during that time. |

### IMAGES



#### Application Data

Staining of staurosporine-induced THP-1 cells using the Magic Red™ Cathepsin K kit

ADDITIONAL INFORMATION

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|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CTSK assay kit | <p><b>Description:</b> The Magic Red Cathepsin K kit uses a quick and easy method to analyze intracellular Cathepsin K protease activity in whole living cells.</p> <p><b>Test Principle:</b> Cathepsin Magic Red kits measure cathepsin K protease activity by detecting active cathepsins in whole, living cells. These kits do not work by using antibodies or as an ELISA. Instead, their methodology is based on a cell-permeable and non-cytotoxic reagent which is cleaved in the presence of cathepsins to produce a fluorescent product. The Magic Red reagent contains a cathepsin K target sequence peptide (LR)2 linked to a red (Cresyl Violet) fluorescent probe.</p> <p>The Cathepsin Magic Red kits are suitable for cells in suspension, adherent cells, thin frozen tissue sections (but not fixed or paraffin-embedded cells) from many species including mammalian, insect and yeast. Different cell types, e.g. Jurkat, HL-60, THP-1, fibroblasts, UMUC-3, MCF-7 and U937 cells have also been successfully studied with these kits.</p> <p>This kit can be used in fluorescence microscopy or with fluorescence plate readers using black microtitre plates.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| NCBI GI #                        | 4503151                                                           |
| NCBI GeneID                      | 1513                                                              |
| NCBI Accession #                 | NP_000387.1                                                       |
| NCBI GenBank Nucleotide #        | NM_000396.3                                                       |
| Molecular Weight                 | 36,966 Da                                                         |
| NCBI Official Full Name          | cathepsin K preproprotein                                         |
| NCBI Official Synonym Full Names | cathepsin K                                                       |
| NCBI Official Symbol             | CTSK                                                              |
| NCBI Official Synonym Symbols    | CTSO; PKND; PYCD; CTSO2; CTSO1; CTSO2                             |
| NCBI Protein Information         | cathepsin K; cathepsin O; cathepsin O1; cathepsin O2; cathepsin X |
| UniProt Protein Name             | Cathepsin K                                                       |
| UniProt Gene Name                | CTSK                                                              |
| UniProt Synonym Gene Names       | CTSO; CTSO2                                                       |
| UniProt Entry Name               | CATK_HUMAN                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.