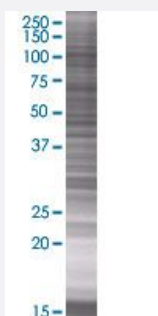


# CAST 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00000831-T02

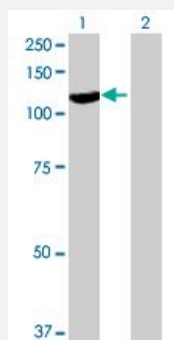
Size 100 uL

## Applications



### SDS-PAGE Gel

CAST transfected lysate.



### Western Blot

Lane 1: CAST transfected lysate ( 74.1 KDa)

Lane 2: Non-transfected lysate.

## Specification

**Transfected Cell Line** 293T

**Plasmid** pCMV-CAST full-length

**Host** Human

**Theoretical MW (kDa)** 74.1

**Quality Control Testing** Transient overexpression cell lysate was tested with Anti-CAST antibody ([H00000831-B02](#)) by Western Blots.  
 SDS-PAGE Gel  
 CAST transfected lysate.  
 Western Blot  
 Lane 1: CAST transfected lysate ( 74.1 KDa)  
 Lane 2: Non-transfected lysate.

**Storage Buffer**

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — CAST

**Entrez GeneID**[831](#)**GeneBank Accession#**[NM\\_173060.2](#)**Protein Accession#**[NP\\_775083.1](#)**Gene Name**

CAST

**Gene Alias**

BS-17, MGC9402

**Gene Description**

calpastatin

**Omim ID**[114090](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is an endogenous calpain (calcium-dependent cysteine protease) inhibitor. It consists of an N-terminal domain L and four repetitive calpain-inhibition domains (domains 1-4), and it is involved in the proteolysis of amyloid precursor protein. The calpain/calpastatin system is involved in numerous membrane fusion events, such as neural vesicle exocytosis and platelet and red-cell aggregation. The encoded protein is also thought to affect the expression levels of genes encoding structural or regulatory proteins. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of only some have been determined. [provided by RefSeq]

**Other Designations**

OTTHUMP00000158519|OTTHUMP00000158520|calpain inhibitor|heart-type calpastatin|sperm BS-17 component

## Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Edema](#)
- [Hypertension](#)
- [Multiple Sclerosis](#)
- [Obesity](#)
- [Parkinson disease](#)
- [Tobacco Use Disorder](#)