Datasheet for ABIN3183694

anti-Cathepsin G antibody (Internal Region)

1 Validation

1 Image

Go to Product page

Overview

Quantity:	100 µL
Target:	Cathepsin G (CTSG)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Cathepsin G antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized peptide derived from the Internal region of human Cathepsin G.
Isotype:	IgG
Specificity:	Cathepsin G Polyclonal Antibody detects endogenous levels of Cathepsin G protein.
Characteristics:	Rabbit Polyclonal to Cathepsin G.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	Cathepsin G (CTSG)
Alternative Name:	Cathepsin G (CTSG Products)

Target Details

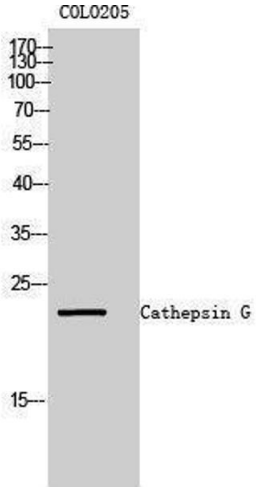
Molecular Weight:	22 kDa
Gene ID:	1511
UniProt:	P08311
Pathways:	ACE Inhibitor Pathway, Peptide Hormone Metabolism, Regulation of Systemic Arterial Blood Pressure by Hormones

Application Details

Application Notes:	WB 1:500-1:2000, ELISA 1:40000,
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Store at -20°C.



Western Blotting

Image 1.

Validation report #102721 for Unfolding Profile (UP)

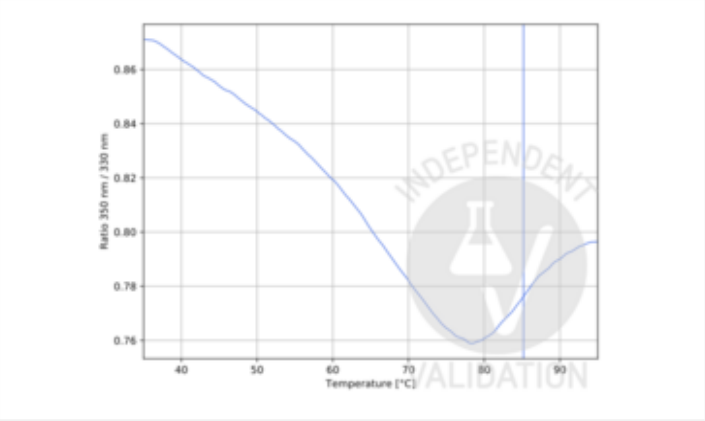
Successfully validated (Unfolding Profile (UP))

by NanoTemper Technologies

Report Number: 102721

Date: Nov 05 2018

Target:	CTSG
Lot Number:	022204892
Method validated:	Unfolding Profile (UP)
Positive Control:	ABIN3183694
Notes:	Passed. ABIN3183694 showed T_i at 85.2°C and a clear unfolding profile with one unfolding event. This suggests that the protein is properly folded and functional.
Primary Antibody:	ABIN3183694
Protocol:	• Dilute ABIN3183694 1:10 in PBS buffer (Roth, 1058.1, lot 285231988) to get a final volume of 15µl at a concentration of 0.67µM. • Load sample into Tycho capillary (NanoTemper Technologies, TY-C001). • Run Tycho measurement.
Experimental Notes:	Tycho is designed to run quick and precise protein quality check experiments. Tycho uses intrinsic protein fluorescence to follow protein unfolding while running a fast thermal ramp, yielding results in 3min. A protein's unfolding behavior is characterized by various parameters, most notably the inflection temperature (T_i). The T_i can be used to identify properly folded protein, to compare different batches, or to analyze the influence of storage/transport conditions on a protein. An absence of T_i would suggest that the protein is already unfolded and therefore most likely nonfunctional.



Validation image no. 1 for anti-Cathepsin G (CTSG) (Internal Region) antibody (ABIN3183694)

p>Unfolding profile of ABIN3183694. The fluorescence signal is plotted against temperature. The native (folded) protein has a high signal at the beginning of the experiment, which decreases and then again increases upon unfolding, showing one unfolding event. The vertical line indicates the T_i at 85.2°C.