

HtrA3 Antibody (F54667)

Catalog No.	Formulation	Size
F54667-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54667-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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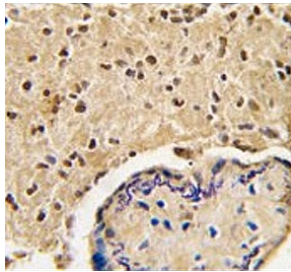
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P83110
Localization	Nuclear, cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000
Limitations	This HtrA3 antibody is available for research use only.

kDa
250
150
100
75
50
37
25

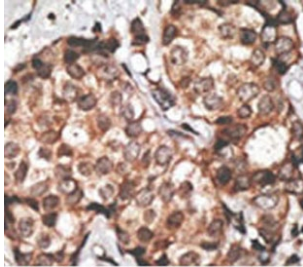
Western blot testing of rat testis lysate with HtrA3 antibody. Predicted molecular weight ~49 kDa.

kDa
72
55
36
28
17

Western blot testing of human heart lysate with HtrA3 antibody. Predicted molecular weight ~49 kDa.



IHC testing of FFPE human placental tissue with HtrA3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human breast cancer tissue with HtrA3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Insulin-like growth factors (IGFs) stimulate the proliferation and differentiation of a vast number of cell types. The action of the growth factors is mediated and controlled by a complex system of components, including several proteases that cleave the IGF-Binding Proteins. HtrA1 is a 480 aa protein that contains an N-terminus homologous to MAC25 (IGFBP7) with a conserved Kazal-type serine protease inhibitor motif, as well as a C-terminal PDZ domain. Semiquantitative RT-PCR and immunoblot analyses showed an approximately 7-fold increase of PRSS11 in osteoarthritis cartilage compared with controls. HTRA2 is released from mitochondria and inhibits the function of XIAP by direct binding in a way similar to SMAC. Moreover, when overexpressed extramitochondrially, HTRA2 induced atypical cell death, which was neither accompanied by a significant increase in caspase activity nor inhibited by caspase inhibitors, including XIAP. A catalytically inactive mutant of HTRA2, however, did not induce cell death. Suzuki et al. (2001) concluded that HTRA2 is a SMAC-like inhibitor of IAP (inhibitor of apoptosis proteins) activity with a serine protease-dependent cell death-inducing activity.

Application Notes

The stated application concentrations are suggested starting points. Titration of the HtrA3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 112-144 from the human protein was used as the immunogen for the HtrA3 antibody.

Storage

Aliquot the HtrA3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

