

# Product Datasheet

## Caspase-14 Antibody NB100-56126

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 6

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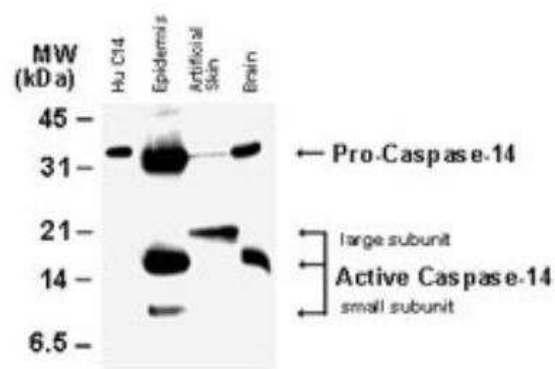
**NB100-56126**

## Caspase-14 Antibody

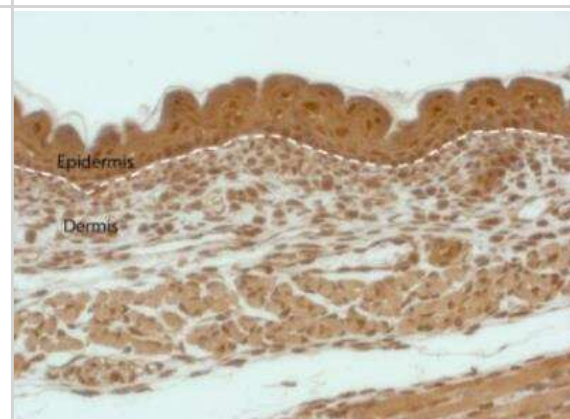
Product Information	
<b>Unit Size</b>	0.05 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Neat whole antisera
Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	23581
<b>Gene Symbol</b>	CASP14
<b>Species</b>	Human, Mouse, Rat, Canine, Gerbil
<b>Specificity/Sensitivity</b>	This polyclonal antibody recognizes the proform of caspase-14 (~28-32 kDa), and the large (~14-21 kDa) and small (~10-11 kDa) of active/cleaved caspase-14.
<b>Immunogen</b>	Recombinant full-length human Caspase-14 was used as immunogen.
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000

## Images

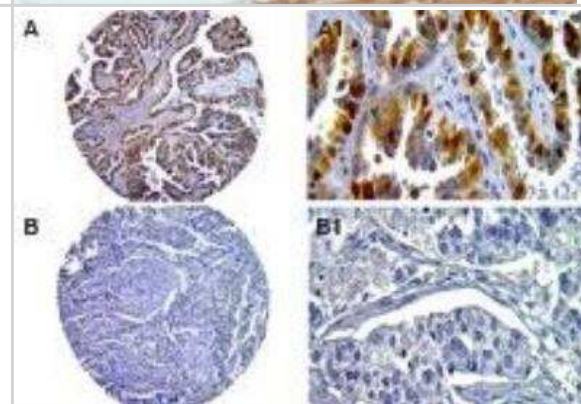
**Western Blot: Caspase-14 Antibody [NB100-56126] - Analysis of Caspase-14.** Tissue lysates (50 ug/lane) and recombinant human Caspase-14 were (Hu C14, 15 ng) were western blotted with Caspase-14 antibody at 1:2000. The antibody detected both the proform of caspase-14, and the large and small subunits of active/cleaved caspase-14.



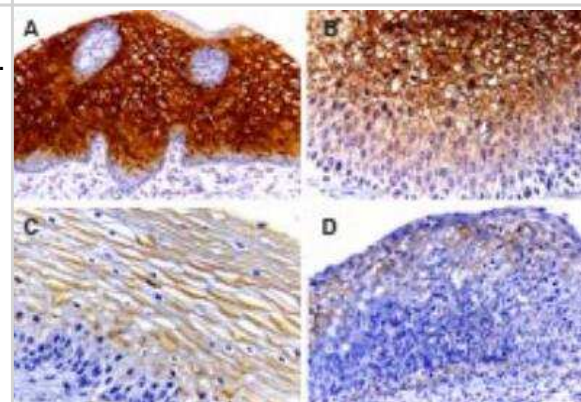
**Immunohistochemistry: Caspase-14 Antibody [NB100-56126] - Tissue sections of mouse skin at E17 stained using this antibody at 1:500.**



**Immunohistochemistry-Paraffin: Caspase-14 Antibody [NB100-56126] - Human ovarian cancer tissue microarray stained for Caspase-14 expression using this antibody at 1:2000.** Low (A) and high (B) stage ovarian tumor tissue cores. High magnification from areas of the tissue cores (A1 and B1). Decreased Caspase-14 expression was seen in the high grade, compared to the low grade tumor. Hematoxylin-eosin counterstain.



**Immunohistochemistry-Paraffin: Caspase-14 Antibody [NB100-56126] - Tissue sections of human cervix stained using this antibody at 1:2000.** A. Normal cervix (squamous epithelium). B. CIN1 (low-grade squamous intraepithelial lesion, mild dysplasia). C. CIN2 (high-grade squamous intraepithelial lesion, moderate dysplasia). D. CIN3 (high-grade squamous intraepithelial lesion; severe dysplasia-carcinoma in situ). In normal cervix, caspase-14 staining was found most in the midzone layer, but was absent from the basal/parabasal cell layer where mitotically active cells are known to reside. This suggests induction of caspase-14 expression with differentiation. Caspase-14 expression declined progressively during malignant transformation as the histologic severity of the cervical atypia advanced from CIN1 to CIN3. Hematoxylin-eosin counterstain.



## Publications

Burger C, Shirsath N et al. Blocking mTOR Signalling with Rapamycin Ameliorates Imiquimod-induced Psoriasis in Mice. *Acta Derm Venereol* 2017-02-10 [PMID: 28597024] (IF/IHC, Mouse)

Chamcheu JC, Adhami VM, Esnault S et al. Dual inhibition of PI3K/Akt and mTOR by the Dietary Antioxidant Delphinidin Ameliorates Psoriatic Features In-vitro and in an Imiquimod-induced Psoriasis-like Disease in Mice *Antioxid. Redox Signal.* 2016-07-08 [PMID: 27393705] (IF/IHC, Human)

Arai M, Matsuzaki T, Ihara S. Wound Closure on the Neonatal Rat Skin I. The Modulation of the Thickness of Epidermis at the Closing Incisional Wounds. *CellBio* 2013-01-01 (IF/IHC, Rat)

Murakami H, Okamura K, Aoki S et al. Association of caspase-14 and filaggrin expression with keratinization of the oral mucosa and reconstruction culture rat models. *J Periodontal Res* 2013-12-11 [PMID: 24329962] (IF/IHC, Rat)

Krajewska M, Kim H, Shin E et al. Tumor-associated alterations in caspase-14 expression in epithelial malignancies. *Clin Cancer Res.* 2005-08-01 [PMID: 16061862] (WB, IHC-P)

### Details:

WB: Fig 1C (recombinant human and mouse caspase-14 protein) and Fig 1D (various normal human tissues and tumor cell lines); IHC (paraffin), Fig 2 (continuum from human uterine normal to malignant cervix), Fig 3A (human gastric cancer), Fig 4 (human ovaria

Krajewska M, Rosenthal RE, Mikolajczyk J et al. Early processing of Bid and caspase-6, -8, -10, -14 in the canine brain during cardiac arrest and resuscitation. *Exp Neurol.* 2004-10-01 [PMID: 15380478]

### Details:

Antibodies cited: 1. Caspase-9 (Active/Cleaved), IMG-5705: WB: Fig 1A (recombinant human caspase-9), Fig 4A (recombinant human caspase-9, rat brain), Fig 4B-F (isolated mitochondria from rat liver or heart). Fig 5 (PC12 cells) IHC (P): Fig 2d-k (rat kidney





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### **Products Related to NB100-56126**

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NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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