**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TA306105

## Endo G (ENDOG) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | IF, IHC, WB |
| **Recommended Dilution:** | WB: 2 ug/mL, ICC: 15 ug/mL |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | EndoG antibody was raised with a synthetic peptide corresponding to 15 amino acids near the amino terminus of human EndoG. The immunogen is located within amino acids 40 - 90 of EndoG. |
| **Formulation:** | PBS containing 0.02% sodium azide. |
| **Purification:** | Affinity chromatography purified via peptide column |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Shipped at 4°C (stable for 3-5 days at RT). |
| **Gene Name:** | endonuclease G |
| **Database Link:** | NP_004426<br>Entrez Gene 13804 MouseEntrez Gene 362100 RatEntrez Gene 2021 Human<br>Q14249 |

View online »

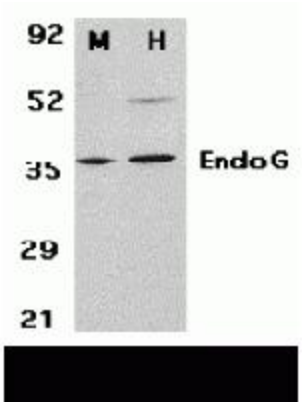
**Background:** The fragmentation of nuclear DNA is a hallmark of apoptotic cell death. The activities of caspase and nuclease are involved in the DNA fragmentation. Caspase-activated deoxyribonuclease (CAD), also termed DNA fragmentation factor (DFF40), is one such nuclease, and is capable of inducing DNA fragmentation and chromatin condensation after cleavage by caspase-3 of its inhibitor ICAD/DFF45. Caspase and CAD independent DNA fragmentation also exists. Recent studies demonstrated that another nuclease, endonuclease G (endoG), is specifically activated by apoptotic stimuli and is able to induce nucleosomal fragmentation of DNA independently of caspase and DFF/CAD (1,2). EndoG is a mitochondrion-specific nuclease that translocates to the nucleus and cleaves chromatin DNA during apoptosis. The homologue of mammalian EndoG is the first mitochondrial protein identified to be involved in apoptosis in C. elegans (2). EndooG also cleaves DNA in vitro (4).

**Synonyms:** FLJ27463

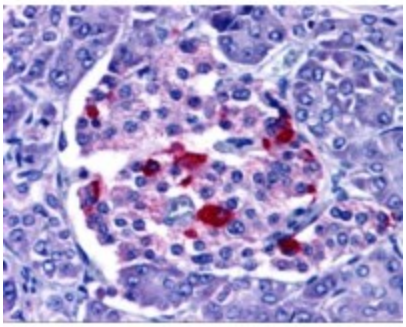
**Protein Families:** Druggable Genome

**Protein Pathways:** Apoptosis

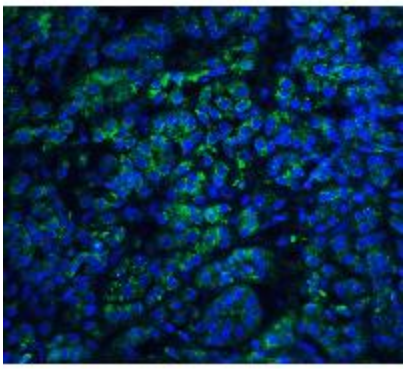
## Product images:




Western blot analysis of EndoG in mouse (M) 3T3 and human (H) HepG2 cell lysates with EndoG antibody at 2ug/ml.



Immunohistochemistry of EndoG in human pancreas with EndoG antibody at 15ug/ml.



Immunofluorescence of EndoG in human pancreas tissue with EndoG antibody at 20ug/ml.