10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# ENTPD3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10716b

## Product Information

| | |
|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | O75355 |
| **Other Accession** | NP_001239.2 |
| **Reactivity** | Human |
| **Predicted** | Rabbit |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB28547 |
| **Calculated MW** | 59105 |
| **Antigen Region** | 496-527 |

## Additional Information

| | |
|---|---|
| **Gene ID** | 956 |
| **Other Names** | Ectonucleoside triphosphate diphosphohydrolase 3, NTPDase 3, CD39 antigen-like 3, Ecto-ATP diphosphohydrolase 3, Ecto-ATPDase 3, Ecto-ATPase 3, Ecto-apyrase 3, HB6, ENTPD3, CD39L3 |
| **Target/Specificity** | This ENTPD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 496-527 amino acids from the C-terminal region of human ENTPD3. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ENTPD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

| | |
|---|---|
| **Name** | ENTPD3 ( HGNC:3365) |

| | |
|---|---|
| **Function** | Catalyzes the hydrolysis of nucleoside triphosphates (NTPs) and diphosphates (NDPs) (PubMed:10231536, PubMed:11300774, PubMed:15966724, PubMed:9675246). The enzyme sequentially removes phosphate groups in two successive steps, converting NTPs to nucleoside monophosphates (NMPs) via NDP intermediates (PubMed:10231536, PubMed:11300774, PubMed:15966724, PubMed:9675246). This activity contributes to the regulation of extracellular levels of nucleotides (PubMed:10231536, PubMed:11300774, PubMed:15966724, PubMed:9675246). Has a preference for the hydrolysis of ATP (PubMed:10231536). Does not hydrolyzes AMP (PubMed:9675246). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |
| **Tissue Location** | Expressed in adult brain, pancreas, spleen and prostate (PubMed:9676430). Moderate or low expression is seen in most tissues (PubMed:9676430). Not expressed in liver and peripheral blood leukocytes (PubMed:9676430). |

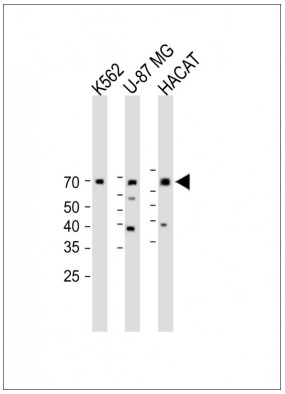
## Background

ENTPD3 is similar to E-type nucleotidases (NTPases). NTPases, such as CD39, mediate catabolism of extracellular nucleotides. ENTPD3 contains 4 apyrase-conserved regions which is characteristic of NTPases.

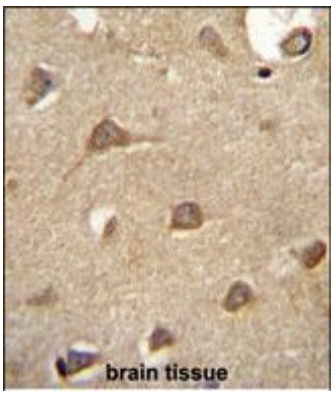
## References


Fausther, M., et al. Am. J. Physiol. Lung Cell Mol. Physiol. 298 (6), L804-L818 (2010) :
Gaddie, K.J., et al. Biochemistry 48(40):9437-9447(2009)
Munkonda, M.N., et al. FEBS J. 276(2):479-496(2009)
Munkonda, M.N., et al. Biochem. Pharmacol. 74(10):1524-1534(2007)
Ivanenkov, V.V., et al. Biochemistry 44(25):8998-9012(2005)

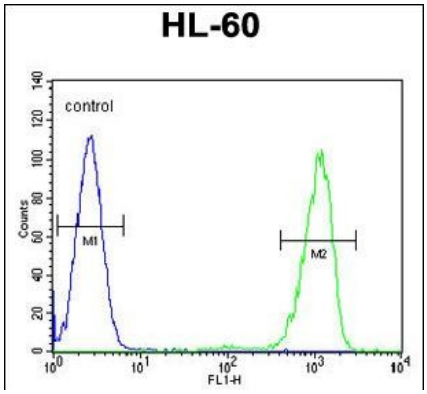

## Images




All lanes : Anti-ENTPD3 Antibody (C-term))at 1:2000 dilution Lane 1:K562 whole cell lysate Lane 2: U-87MG whole cel lysate Lane 3: HACAT whole cel lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 60kDa Blocking/Dilution buffer: 5% NFDM/TBST.




ENTPD3 antibody (C-term) (Cat. #AP10716b) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ENTPD3 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.




ENTPD3 Antibody (C-term) (Cat. #AP10716b) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.