

## Product datasheet for **TA351507**

### PDE4D Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Hela cells IHC: 25-100 Positive control: Human prostate cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human PDE4D
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	91 kDa
Gene Name:	phosphodiesterase 4D
Database Link:	<a href="#">NP_006194</a> <a href="#">Entrez Gene 5144 Human</a> <a href="#">Q08499</a>

**Background:** This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.



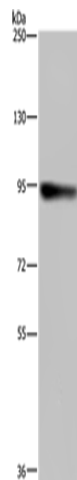
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**Synonyms:** ACRDYS2; DPDE3; HSPDE4D; PDE4DN2; PDE43; STRK1

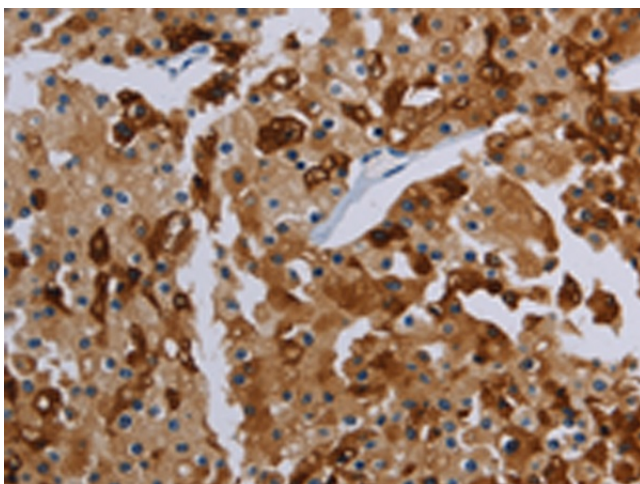
**Protein Families:** Druggable Genome

**Protein Pathways:** Progesterone-mediated oocyte maturation, Purine metabolism

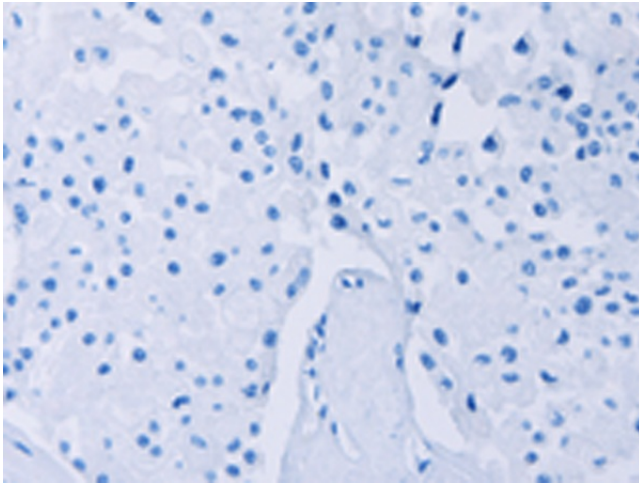
**Product images:**



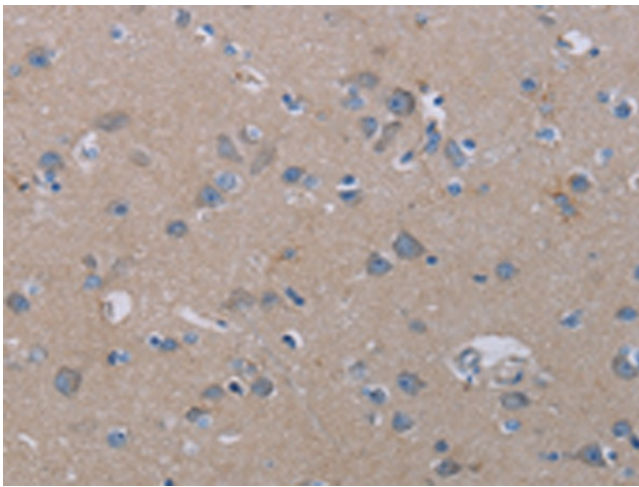
Gel: 6%SDS-PAGE  
Lysate: 40  $\mu$ g  
Lane: HeLa cells  
Primary antibody: TA351507 (PDE4D Antibody) at dilution 1/200  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 1 minute



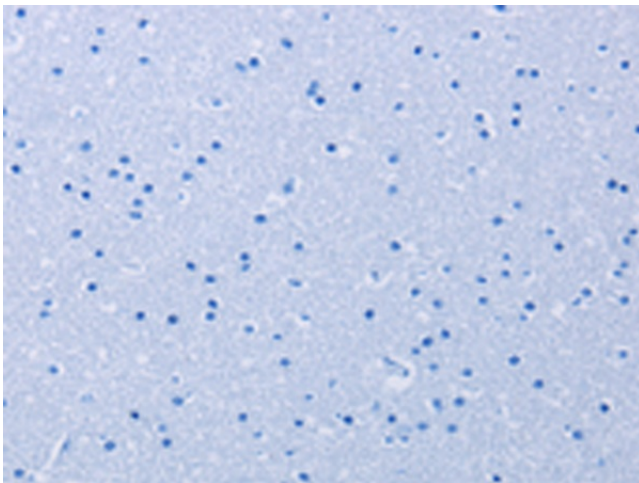
Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using TA351507 (PDE4D Antibody) at dilution 1/20 (Original magnification:  $\times$ 200)



Immunohistochemistry of paraffin-embedded Human prostate cancer tissue using TA351507 (PDE4D Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA351507 (PDE4D Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA351507 (PDE4D Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)