

## Product datasheet for **TA349312S**

### DUSP10 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Mouse brain tissue IHC: 25-100 Positive control: Human brain Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human DUSP10
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
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:	53 kDa
Gene Name:	dual specificity phosphatase 10
Database Link:	<a href="#">NP_009138</a> <a href="#">Entrez Gene 63953 Mouse</a> <a href="#">Entrez Gene 11221 Human</a> <a href="#">Q9Y6W6</a>



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**Background:**

Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK, but not MAPK/ERK. Its subcellular localization is unique; it is evenly distributed in both the cytoplasm and the nucleus.

**Synonyms:**

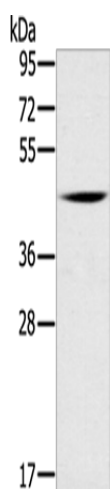
MKP-5; MKP5

**Protein Families:**

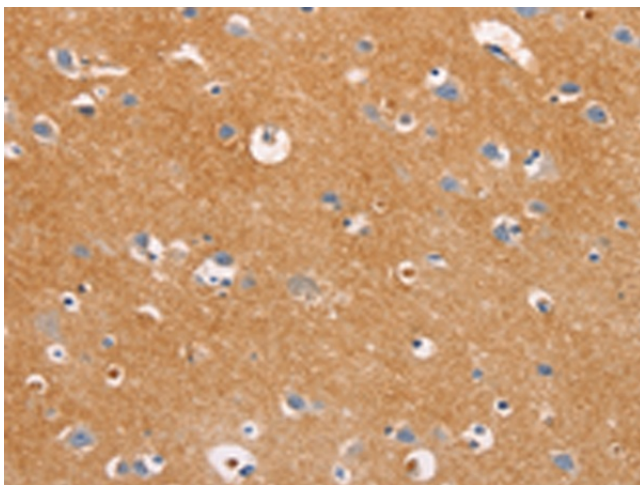
Druggable Genome, Phosphatase

**Protein Pathways:**

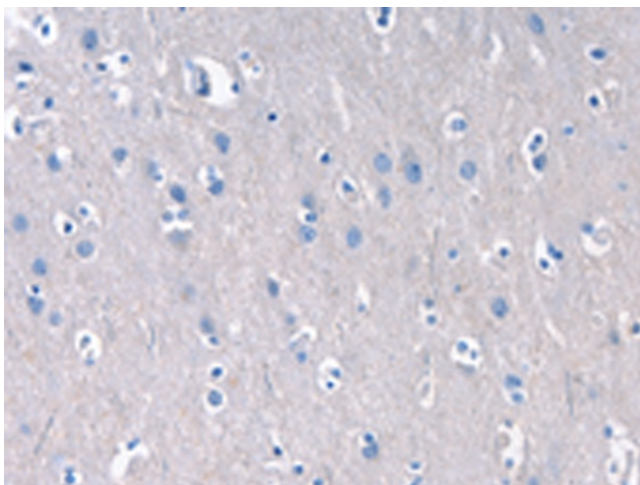
MAPK signaling pathway

**Product images:**

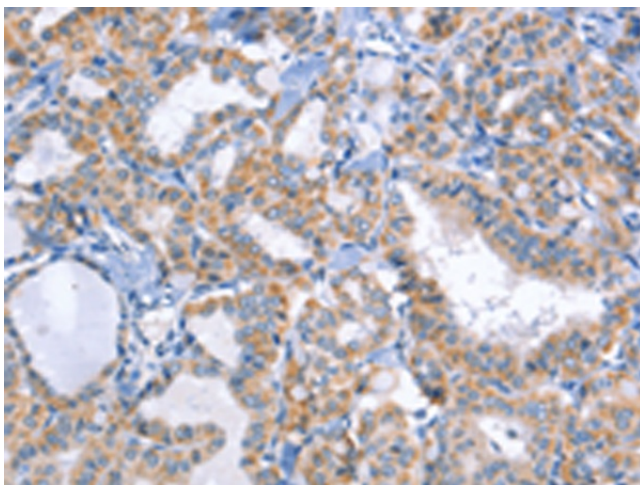
Gel: 8%SDS-PAGE  
Lysate: 40  $\mu$ g  
Lane: Mouse brain tissue  
Primary antibody: [TA349312] (DUSP10 Antibody) at dilution 1/200  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 5 minutes



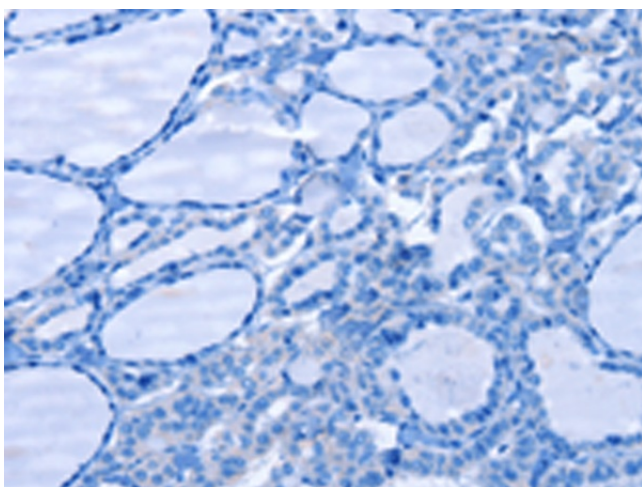
Immunohistochemistry of paraffin-embedded Human brain tissue using [TA349312] (DUSP10 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human brain tissue using [TA349312] (DUSP10 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA349312] (DUSP10 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA349312] (DUSP10 Antibody) at dilution 1/20, treated with fusion protein. (Original magnification: ×200)