

Datasheet for ABIN4889606

anti-TDC2 antibody (C-Term)

1 Validation



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Quantity:	100 μg	
Target:	TDC2	
Binding Specificity:	C-Term	
Reactivity:	Drosophila melanogaster	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This TDC2 antibody is un-conjugated	
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)	
Product Details		
Product Details Immunogen:	Synthetic peptide derived from C-terminal part of Drosophila Tdc2 protein.	
	Synthetic peptide derived from C-terminal part of Drosophila Tdc2 protein. Reacts with Drosophila melanogaster 72 kDa Tdc2 protein	
Immunogen:		
Immunogen: Specificity:	Reacts with Drosophila melanogaster 72 kDa Tdc2 protein	
Immunogen: Specificity: Purification:	Reacts with Drosophila melanogaster 72 kDa Tdc2 protein	
Immunogen: Specificity: Purification: Target Details	Reacts with Drosophila melanogaster 72 kDa Tdc2 protein Purified (protein A)	
Immunogen: Specificity: Purification: Target Details Target:	Reacts with Drosophila melanogaster 72 kDa Tdc2 protein Purified (protein A) TDC2	
Immunogen: Specificity: Purification: Target Details Target: Alternative Name:	Reacts with Drosophila melanogaster 72 kDa Tdc2 protein Purified (protein A) TDC2 Tyrosine Decarboxylase 2	

Application Details

Application Notes:	Working dilution: Optimal dilutions should be determined by the end user.	
	The following are guidelines only:	
	IHC(1:200 - 1:1000) WB(1:200 - 1:2000)	
Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Must be reconstituted in distilled water.	
Concentration:	1 mg/mL	
Buffer:	Tris 0,1M, glycine 0,1M, sucrose 2 %	
Storage:	4 °C/-20 °C	
Storage Comment:	Lyophilized powder stable for a minimum of 2 years at -20°C. Store reconstituted antibodies at	
	+4°C. For extended periods store in aliquots at -20°C. Antibodies are guaranteed for 6 month	
	from date of receipt.	
Expiry Date:	24 months	





Successfully validated (Immunofluorescence (IF))

by Department of Entomology, University of California, Riverside

Report Number: 100812

Date: May 26 2017

Target:	Tdc2	
Lot Number:	13B1	
Method validated:	Immunofluorescence (IF)	
Positive Control:	D. melanogaster octopaminergic neurons labeled with Tdc2-Gal4 of the abdominal nerve to the ovary	
Notes:	Passed. ABIN809182 labels octopaminergic neurons specifically and with no background.	
Primary Antibody:	ABIN4889606	
Secondary Antibody:	goat anti-rabbit AF542 conjugated antibody (Life Technologies)	
Protocol:	 Dissect ovaries of <i>D. melanogaster</i> ETHR-Gal4/UAS-MCD8-GFP expressing GFP in octopaminergic neurons in cold Schneider's Insect Medium (S2; Sigma Aldrich, S01416). Transfer tissue to 2ml protein LoBind tubes (Eppendorf, 022431102) filled with S2 containing 2% paraformaldehyde (PFA) at RT. Fix tissue for 55min at RT while nutating. Wash tissue 4x 10min with 1.75ml PBS containing 0.5% Triton X-100 (PBST). Remove PBST and add 200µl 5% goat serum (GS; Thermo Fisher Scientific, 16210064) in PBST per tube. Incubate 1.5h at RT on a rotator. Remove blocking solution. Incubate with primary rabbit anti-Tdc2 antibody (Tyrosine Decarboxylase 2) (C-Term) (antibodies-online, ABIN4889606, lot 13B1) diluted 1:200 in blocking solution. mouse anti-GFP (Thermo Fisher Scientific) diluted 1:500 in blocking solution. Incubate for 4h at RT followed by 36-48h at 4°C on a rotator. Rinse tissue with 1.75ml PBST. Allow the tissue to settle to the bottom before removing the liquid. Wash tissue 3x 30min with 1.75ml PBST. Incubate with secondary 200µl secondary goat anti-rabbit AF542 conjugated antibody (Life Technologies) and goat anti-mouse AF488 conjugated antibody (Life Technologies, A11034) 	

diluted 1:500 in blocking solution containing 0.5mg/ml DAPI.

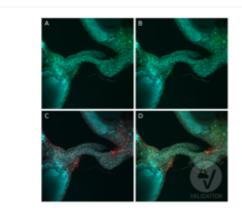
• Incubate for 4h at RT followed by 72h at 4°C on a rotator.

- Rinse tissue with 1.75ml PBST. Allow the tissue to settle to the bottom before removing the liquid.
- Wash tissue 3x 30min with 1.75ml PBST.
- Add 1.75ml PBST containing 4% PFA at RT.
- · Fix tissue for 5h at RT while nutating.
- Rinse tissue with 1.75ml PBST. Allow the tissue to settle to the bottom before removing the liquid.
- Wash tissue 4x 15min with 1.75ml PBST.
- Mount tissue on a poly-L-lysine (Sigma Aldrich, P1524-25MG) coated cover glass.
- Dehydrate tissue by covering the cover glass for 10min each with 30%, 50%, 75%, 95%, 100%, 100%, and 100% EtOH.
- Clearing using by covering the cover glass 3x 5min with xylene.
- Add 7 drops of dibutyl phthalate in xylene (DPX) on top of the mounted tissue.
- · Seat cover glass face down gently onto a prepared slide with spacers.
- · Let the slide dry for 48h at RT in a hood before viewing.

Experimental Notes:

- Staining of ETHR-Gal4/UAS-MCD8-GFP expressing GFP in octopaminergic neurons was performed as previously described.
- · ABIN4889606 worked fantastically. It labeled octopaminergic neurons specifically and with no background. Pictures are below. The well-characterized neurons labeled with Tdc2-Gal4 of the abdominal nerve to the ovary described in Middleton et al. (2006) overlapped with ABIN4889606. Staining with ABIN4889606 was stronger than Gal4 labeling.

Image for Validation report #100812



Validation image no. 1 for anti-Tyrosine Decarboxylase 2 (TDC2) (C-Term) antibody (ABIN4889606)

Immunostaining of *D. melanogaster* octopaminergic ovarian nerves expressing GFP (A), immunostaining of expressed GFP (green) (B), and of tdc2 with ABIN4889606 (red) (C). The three channels are merged in D.