

## *Anti-DAT*

*(plasmalemmal dopamine transporter)*

**Code Number** : DAT-Rb-Af1800 (rabbit, RRID : AB\_2571686)  
 : DAT-Go-Af980 (goat, RRID : AB\_2571687)  
 : DAT-GP-Af720 (guinea pig, RRID : AB\_2571688)  
 : DAT-GP-Af660 (guinea pig, RRID : AB\_2571689)

**Size** : 20 µg and 50 µg / See label on vial  
 (affinity-purified with antigen polypeptide)

**Formulation** : Liquid ; 200 µg/ml in PBS with 0.05% NaN<sub>3</sub>.

**Storage** : Store at cool temp. (2-10°C)

The antibody can be stored at 2-10°C. The antibody can be also aliquotted and stored at -80°C for long-term storage. Avoid repeated freeze-thawing. Non-hazardrous. No MSDS required.

**Species** : rabbit / guinea pig / goat, polyclonal

**Antigen** : mouse DAT, 1-60 aa (BC054119)

**Specificity** : mouse (others not tested)

Immunoblot detects a single protein band at 60-65 kDa. This selectively stains axons of dopaminergic neurons.

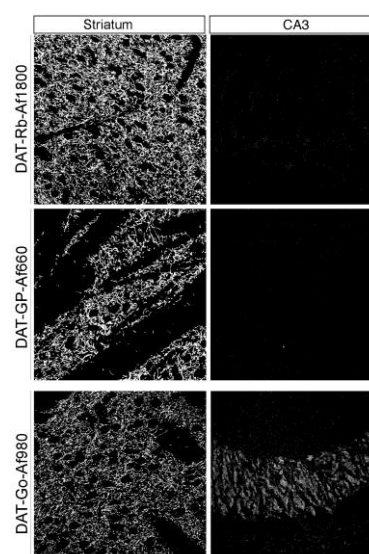
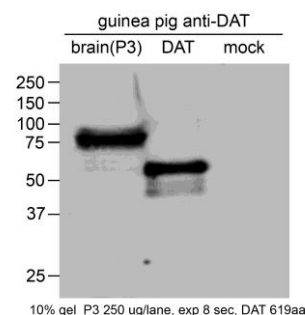
**Applications** : In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

**Research Use** : For research use only, not for use in diagnostic procedures.

**Remarks** : DAT-GP-Af720 can be used for immunoblot ([see the picture](#)) as well as for

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immunohistochemistry, but has non-specific labeling in mossy fibers projecting to the hippocampal CA3 region. Non-specific labeling in mossy fibers is also found in DAT-Go-Af980. DAT-Rb-Af1800 and DAT-GP-Af660 are highly specific to DAT without non-specific labeling in mossy fibers, although they are low sensitivity when used in immunoblot.

**Reference** : Uchigashima M, Narushima M, Fukaya M, Katona I, Kano M, Watanabe M: Subcellular arrangement of molecules for 2-arachidonoyl-glycerol-mediated retrograde signaling and its physiological contribution to synaptic modulation in the striatum. **J. Neurosci.** 27:3663-3676, 2007.

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