Dopamine Receptor D3/DRD3 peptide ab128688

Product name
Dopamine Receptor D3/DRD3 peptide

Nature
Synthetic

Applications
Western blot
Blocking - Blocking peptide for Anti-Dopamine Receptor D3/DRD3 antibody (ab42114)

Form
Liquid

Additional notes
This product was previously labelled as Dopamine Receptor D3

Stability and Storage
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Function
This is one of the five types (D1 to D5) of receptors for dopamine. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. Promotes cell proliferation.

Tissue specificity
Brain.

Involvement in disease
Genetic variation in DRD3 is associated with essential tremor hereditary type 1 (ETM1) [MIM:190300]. ETM1 is the most common movement disorder. The main feature is postural tremor of the arms. Head, legs, trunk, voice, jaw, and facial muscles also may be involved. The condition can be aggravated by emotions, hunger, fatigue and temperature extremes, and may cause a functional disability or even incapacitation. Inheritance is autosomal dominant.
<table>
<thead>
<tr>
<th><strong>Sequence similarities</strong></th>
<th>Belongs to the G-protein coupled receptor 1 family.</th>
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<tbody>
<tr>
<td><strong>Post-translational modifications</strong></td>
<td>Phosphorylated by GRK4 (GRK4-alpha and GRK4-gamma).</td>
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<td><strong>Cellular localization</strong></td>
<td>Cell membrane. Both membrane-bound and scattered in the cytoplasm during basal conditions. Receptor stimulation results in the rapid internalization and sequestration of the receptors at the perinuclear area (5 and 15 minutes), followed by the dispersal of the receptors to the membrane (30 minutes). DRD3 and GRK4 co-localize in lipid rafts of renal proximal tubule cells.</td>
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