




Product datasheet

Anti-DRD5 antibody ab40656

★★★★☆ [2 Abreviews](#) [2 References](#)

Overview

Product name	Anti-DRD5 antibody
Description	Rabbit polyclonal to DRD5
Host species	Rabbit
Specificity	Cross-reacts with Human D5 Dopamine Receptor(_{Ac} 23-35) 100%, D5 Dopamine Receptor 80%. Does not cross react with other dopamine receptors (D1, D2, D3, D4).
Tested applications	Suitable for: ICC/IF, Flow Cyt, WB
Species reactivity	Reacts with: Rat Predicted to work with: Human, Gorilla 
Immunogen	Synthetic peptide corresponding to Human DRD5 aa 23-35 (acetyl G23) conjugated to keyhole limpet haemocyanin (Cysteine residue). Sequence: _{Ac} GNAVGGGAGAPP Database link: P21918  Run BLAST with  Run BLAST with

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized: Rehydrate the lyophilized antibody with 0.1 ml of PBS which contains 10 mg/ml BSA or with additional buffer (such as 10 mg/ml BSA in PBS) for more dilute antibody.
Storage instructions	Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab40656 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
Flow Cyt	★★★★★ (1)	Use at an assay dependent concentration. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★☆☆☆☆ (1)	Use at an assay dependent concentration. Predicted molecular weight: 53 kDa. Blocking with 5% goat or donkey serum significantly reduces background as compared to BSA or milk.

Target

Function	Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase.
Tissue specificity	Neuron-specific, localized primarily within limbic regions of the brain.
Involvement in disease	Defects in DRD5 are a cause of benign essential blepharospasm (BEB) [MIM:606798]. BEB is a primary focal dystonia affecting the orbicularis oculi muscles. Dystonia is defined by the presence of sustained involuntary muscle contraction, often leading to abnormal postures. BEB usually begins in middle age. Initial symptoms include eye irritation and frequent blinking, progressing to involuntary spasms of eyelid closure. Patients have normal eyes. The visual disturbance is due solely to the forced closure of the eyelids. In severe cases, this can lead to functional blindness.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Cellular localization	Cell membrane.

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