

Product datasheet

Anti-COMT antibody [EPR6490] - BSA and Azide free ab248128

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-COMT antibody [EPR6490] - BSA and Azide free
Description	Rabbit monoclonal [EPR6490] to COMT - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab248128 is the carrier-free version of ab126618.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6490
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248128 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

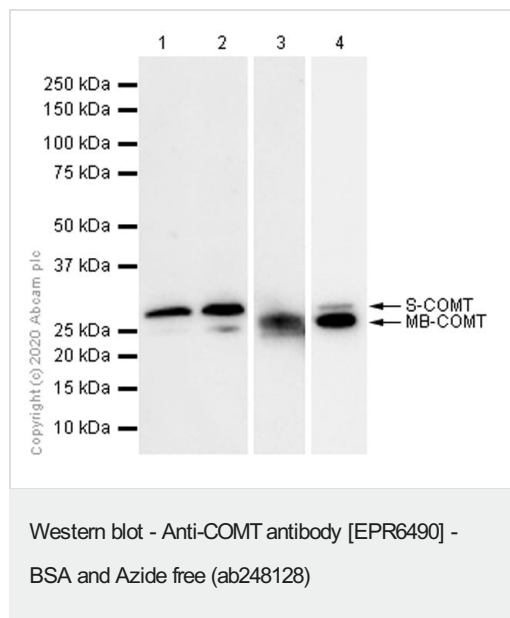
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 24-30 kDa (predicted molecular weight: 30 kDa).

Application notes Is unsuitable for IHC-P.

Target

Function	Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones. Also shortens the biological half-lives of certain neuroactive drugs, like L-DOPA, alpha-methyl DOPA and isoproterenol.
Tissue specificity	Brain, liver, placenta, lymphocytes and erythrocytes.
Sequence similarities	Belongs to the mammalian catechol-O-methyltransferase family.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Cytoplasm and Cell membrane.

Images



All lanes : Anti-COMT antibody [EPR6490] ([ab126618](#)) at 1/1000 dilution (Purified)

Lane 1 : MOLT-4 (Human lymphoblastic leukemia T lymphoblast) whole cell lysate

Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

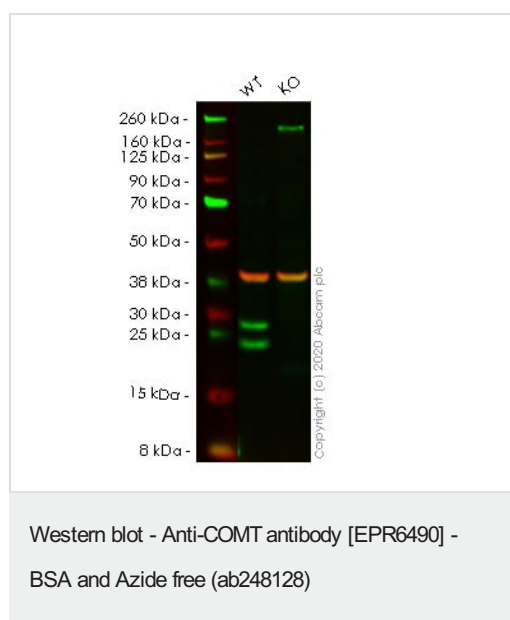
Lane 3 : Rat spleen lysate

Lane 4 : Rat kidney lysate

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 30 kDa



All lanes : Anti-COMT antibody [EPR6490] ([ab126618](#)) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : COMT knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 30 kDa

Observed band size: 24-28 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab126618](#)).

Lanes 1-2: Merged signal (red and green). Green - [ab126618](#) observed at 24-28 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

ab126618 Anti-COMT antibody [EPR6490] was shown to specifically react with COMT in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab266537** (knockout cell lysate **ab257396**) was used. Wild-type and COMT knockout samples were subjected to SDS-PAGE. **ab126618** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 Dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-COMT antibody [EPR6490] - BSA and Azide free (ab248128)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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