


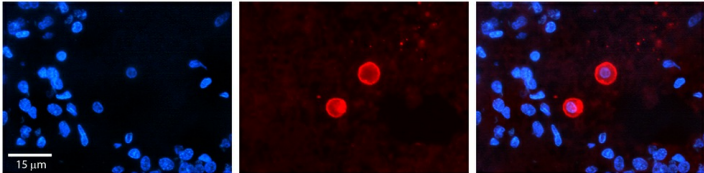


CES2 antibody - C-terminal region (ARP42158_P050)

Data Sheet

| | |
|---|--|
| Product Number | ARP42158_P050 |
| Product Name | CES2 antibody - C-terminal region (ARP42158_P050) |
| Size | 50ug |
| Gene Symbol | CES2 |
| Alias Symbols | CE-2; iCE; PCE-2; CES2A1 |
| Nucleotide Accession# | NM_003869 |
| Protein Size (# AA) | 623 amino acids |
| Molecular Weight | 69kDa |
| Product Format | Lyophilized powder |
| NCBI Gene Id | 8824 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Official Gene Full Name | Carboxylesterase 2 |
| Gene Family | CES |
| Description | This is a rabbit polyclonal antibody against CES2. It was validated on Western Blot using a cell lysate as a positive control. Aviva Systems Biology strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (). |
| Peptide Sequence | Synthetic peptide located within the following region: HWPLFDQEEQYLQLNLQPAVGRALKAHRLQFWKKALPQKIQELEPEERH |
| Target Reference | Kimura,K., (2006) Genome Res. 16 (1), 55-65 |
| Description of Target | Carboxylesterase 2 is a member of a large multigene family. The enzymes are responsible for the hydrolysis of ester- and amide-bond-containing drugs such as cocaine and heroin. They also hydrolyze long-chain fatty acid esters and thioesters. The specific function of this enzyme has not yet been determined; however, it is speculated that carboxylesterases may play a role in lipid metabolism and/or the blood-brain barrier system. Carboxylesterase 2 is a member of a large multigene family. The enzymes encoded by these genes are responsible for the hydrolysis of ester- and amide-bond-containing drugs such as cocaine and heroin. They also hydrolyze long-chain fatty acid esters and thioesters. The specific function of this enzyme has not yet been determined; however, it is speculated that carboxylesterases may play a role in lipid metabolism and/or the blood-brain barrier system. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. |
| Partner Proteins | ITPR1, LRCH4, ITPR1, LRCH4 |
| Reconstitution and Storage | Add 50 ul of distilled water. Final anti-CES2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20C. Avoid repeat freeze-thaw cycles. |
| Lead Time | Domestic: within 24 hours delivery International: 3-5 business days |
| Blocking Peptide | For anti-CES2 antibody is Catalog # AAP42158 (Previous Catalog # AAPS11907) |
| Immunogen | The immunogen for anti-CES2 antibody: synthetic peptide directed towards the C terminal of human CES2 |
| Swissprot Id | O00748 |
| Protein Name | Cocaine esterase |
| Sample Type Confirmation | CES2 is strongly supported by BioGPS gene expression data to be expressed in HepG2 |
| Protein Accession # | NP_003860 |
| Purification | Affinity Purified |
| Species Reactivity | Human, Guinea pig, Dog, Mouse, Rat |
| Application | IHC, WB |
| Predicted Homology Based on Immunogen Sequence | Human: 100%; Dog: 83%; Pig: 83%; Rat: 83%; Mouse: 83%; Guinea pig: 83% |
| | |
| | Human HepG2 <div>  </div> |
| | WB Suggested Anti-CES2 Antibody Titration: 0.2-1  |

| | |
|----------------|--|
| Image 1 | <div data-bbox="627 73 726 286"><p>48 kDa</p><p>36 kDa</p></div> <div data-bbox="952 73 1460 224"><p>ug/ml</p><p>Positive Control: HepG2 cell lysate</p><p>CES2 is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells</p></div> |
| Image 2 | <div data-bbox="406 515 639 544"><p>Human Pineal Tissue</p></div> <div data-bbox="413 551 1120 723"></div> <div data-bbox="1133 421 1508 828"><p>Rabbit Anti-CES2 Antibody Catalog Number: ARP42158_P050 Formalin Fixed Paraffin Embedded Tissue: Human Pineal Tissue Observed Staining: Cytoplasmic in pinealocytes Primary Antibody Concentration: 1:100 Other Working Concentrations: 1/600 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec</p></div> |

This product is for Research Use Only. Not for diagnostic, human, or veterinary use.
Optimal conditions of its use should be determined by end users.