

**Anti-CBR3 Antibody**  
**Rabbit polyclonal antibody to CBR3**  
**Catalog # AP60754****Specification**

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**Anti-CBR3 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O75828</a>
Other Accession	<a href="#">Q8K354</a>
Reactivity	Human, Mouse, Rat, Monkey, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30850

**Anti-CBR3 Antibody - Additional Information****Gene ID** 874**Other Names**

Carbonyl reductase [NADPH] 3; NADPH-dependent carbonyl reductase 3

**Target/Specificity**

Recognizes endogenous levels of CBR3 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200)

IHC~~1:100~500

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-CBR3 Antibody - Protein Information****Name** CBR3 ([HGNC:1549](#))**Function**

Catalyzes the NADPH-dependent reduction of carbonyl compounds to their corresponding alcohols (PubMed:<a href="http://www.uniprot.org/citations/18493841" target="\_blank">18493841</a>). Has low NADPH- dependent oxidoreductase activity. Acts on several orthoquinones, acts as well on non-quinone compounds, such as isatin or on the anticancer drug oracin (PubMed:<a href="http://www.uniprot.org/citations/15537833" target="\_blank">15537833</a>, PubMed:<a href="http://www.uniprot.org/citations/18493841" target="\_blank">18493841</a>, PubMed:<a href="http://www.uniprot.org/citations/19841672" target="\_blank">19841672</a>). Best substrates for CBR3 is 1,2- naphthoquinone, hence could play a role in protection against

cytotoxicity of exogenous quinones (PubMed:<a href="http://www.uniprot.org/citations/19841672" target="\_blank">19841672</a>). Exerts activity toward ortho-quinones but not paraquinones. No endogenous substrate for CBR3 except isatin has been identified (PubMed:<a href="http://www.uniprot.org/citations/19841672" target="\_blank">19841672</a>).

#### Cellular Location

Cytoplasm.

#### Tissue Location

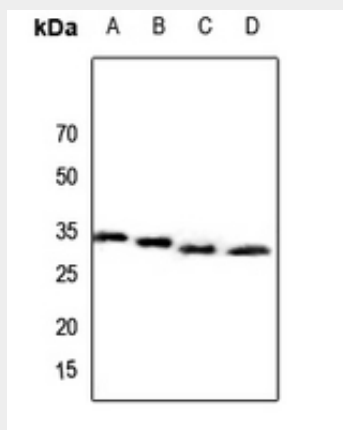
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

### Anti-CBR3 Antibody - Protocols

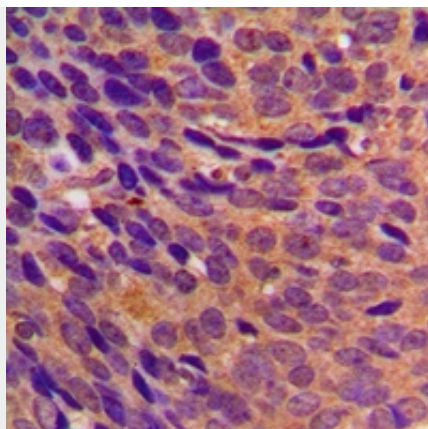
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-CBR3 Antibody - Images



Western blot analysis of CBR3 expression in mouse lung (A), mouse brain (B), mouse liver (C), rat liver (D) whole cell lysates.



Immunohistochemical analysis of CBR3 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-CBR3 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CBR3. The exact sequence is proprietary.