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

Specification

Anti-CBR3 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	O75828
Other Accession	Q8K354
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
KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CBR3. The exact sequence is proprietary.

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:18493841). 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:15537833, PubMed:18493841, PubMed:19841672). Best

substrates for CBR3 is 1,2- naphthoquinone, hence could play a role in protection against cytotoxicity of exogenous quinones (PubMed:19841672). Exerts activity toward ortho-quinones but not paraquinones. No endogenous substrate for CBR3 except isatin has been identified (PubMed:19841672).

Cellular Location
Cytoplasm.

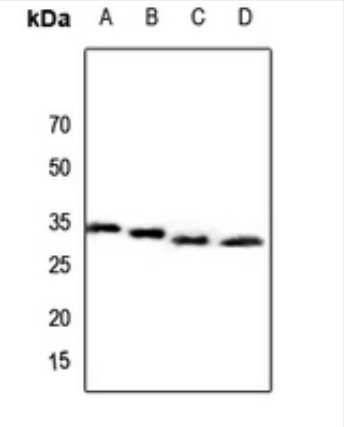
Tissue Location
Detected in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis.

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 Cytomety
- 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.

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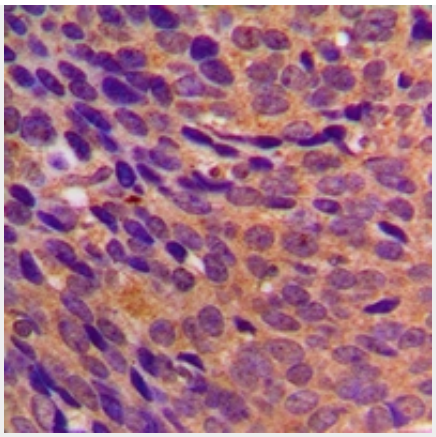

Immunohistochemical analysis of CBR3 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected 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.