

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human APPL in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 709208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human APPL Met1-Ile373 Accession # Q9UKG1
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

APPL, also known as DCC interacting protein 13 alpha (DIP13 alpha), is a widely expressed approximately 80 kDa intracellular adaptor protein. APPL contains two coiled-coil domains (aa 215-259 and aa 621-673), a pleckstrin homology domain (aa 277-375) and a phosphotyrosine interaction domain (PID) (aa 496-656). These domains and the cytoplasmic and nuclear localization of APPL enable it to associate with a range of molecules involved in multiple pathways. APPL mediates the insulin-sensitizing and anti-inflammatory effects of Adiponectin through direct interactions with AdipoR1 and AdipoR2. Within aa 2-373, human APPL shares 99% aa sequence identity with mouse and rat APPL.

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