# eth\_getBlockByHash

Returns information about a block whose hash is in the request

## **Parameters**

- hash
- : (string) [Required
- ] A string representing the hash (32 bytes) of a block transaction details flag
- : (boolean) [Required
- 1 If set totrue
- returns the full transaction objects, iffalse
- returns only the hashes of the transactions

#### Returns

A block object matching the hash in the request, or null when no block was found. The matched block contains the following keys and their values:

- difficulty
- : A hexadecimal of the difficulty for this block
- extraData
- : The "extra data" field of this block
- gasLimit: Maximum gas allowed in this block.
- gasUsed
- Total used gas by all transactions in this block
- : 32 bytes. The hash of the block. Null when the returned block is the pending block
- : 256 bytes. The bloom filter for the logs of the block. Null when the returned block is the pending block.
- : 20 bytes. The address of the beneficiary to whom the mining rewards were given
- : 8 bytes. The hash of the generated proof-of-work. Null when the returned block is the pending block.
- : The block number. Null when the returned block is the pending block
- parentHash
- : 32 bytes. The hash of the parent block. receiptsRoot

- : 32 bytes. The root of the receipts trie of the block. sha3Uncles
- : 32 bytes. The SHA3 of the uncles data in the block.

- : A hexadecimal of the size of this block in bytes stateRoot
- : 32 bytes. The root of the final state trie of the block. timestamp
- : Unix timestamp for when the block was collated
- totalDifficulty
- : A hexadecimal of the total difficulty of the chain until this block.
- : [Array] An array of transaction objects, or 32 bytes transaction hashes depending on the last given parameter.
- : 32 bytes. The root of the transaction trie of the block
- : [Array] An Array of uncle hashes.

# Example

ReplaceYOUR-API-KEY with an API key from your dashboard

# Request

• cURL

 $curl \ https://palm-mainnet.infura.io/v3/YOUR-API-KEY \ -X \ POST \ -H \ "Content-Type: application/json" \ -d \ '{"jsonrpc":"2.0","method":"eth_getBlockByHash","params": ["0xb3b20624f8f0f86eb50dd04688409e5cea4bd02d700bf6e79e9384d47d6a5a35",false],"id":1}'$ 

## Response

JSON

"0x5eced534b3d84d3d732ddbc714f5fd51d98a941b28182b6efe6df3a0fe90004b", "sha3Uncles": "0x8a562e7634774d3e3a36698ac4915e37fc84a2cd0044cb84fa5d80263d2af4f6", "size" stateRoot": "0xf5208fffa2ba5a3f3a2f64ebd5ca3d098978bedd75f335f56b705d87f15ee2305", "timestamp": "0x5b541449", "totalDifficulty": "0x12ac11391a2f3872fcd", "transactions": [
"0x8784d99762bccd03b2086eabcceedd77f14d05463281e121a62abfebcf0d2d5f", "0x311be6a9b58748717ac0f70eb801d29973661aaf1365960d159e4ec4f4aa2d7f", 
"0xe42b0256058b7cad8a14b136a0364acda0b4c36f5b02dea7e69bfd82cef252a2", "0x4eb05376055c6456ed883fc843bc43df1dcf739c321ba431d518aecd7f98ca11", 
"0x994dd9e72b212b7dc5fd0466ab75adf7d391cf4f206a65b7ad2a1fd032bb06d7", "0xf6fecebbabb0ac58591a4bc287059b113308ec499517e91a274e6a1f5e7dce53", 
"0x7e537d687a5525259480440c6ea2e1a8469cd98096aff8597f3d2a4442eff97", "0xa7f62220e92bed6d77a2e19ffc60dad77d7fbd5028c5230c896ab49552a39b50", 
"0xf1fa677edda7e5add8e794732c7554cd5459a5c12781dc71de73c7937dfb2775", "0x241d89f7888fbcfadfd415ee967882fec6fdd67c07ca8a00f2ca4c910a84c7dd"], "transactionsRoot": 
"0xf98631e290e88f58a46b7032f025969039aa9b5696498efc76baf436fa69b262", "uncles": ["0x824cce7c7c2ec6874b9fa9a9a888eb5f27cbaf3991dfa81084c3af60d1db618c"]]}}

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